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SATURDAY, OCTOBER 9, 1875.

The Selden Direct-Acting Pump.

The accompanying engraving represents a pump manufactured by Mr. A. Carr, No. 44 Cortlandt street, New York, intended for water works of small towns or for supplying large railroad stations or other similar locations.

A pump similar to the one represented is now working at New Brunswick, N. J. Its principal dimensions are as follows: steam cylinder, 36 inches diameter, 72-inch stroke. There is one plunger 22 in. in diameter working in two cylinders, as shown in the accompanying illustration.

The pump forces water to a vertical height of 128 feet 6 inches, through 7,779 feet of 16-inch diameter column pipe, the pressure in the column pipe being about 56 to 60 pounds and the steam pressure about the same. The air chamber is a 16inch column pipe 25 feet long, instead of that shown in the cut. The engine makes from twelve to twenty strokes a cut. The engine makes from twelve to twenty strokes a minute; at 14½ strokes it is calculated to deliver 100,000 galons an hour, and so perfect is its working that it delivers within 1½ per cent. of its theoretic capacity. The engine exhausts into a very simple form of condenser (the Craig & Brevoort), in which a vacuum of 20 to 25 inches can be counted on. The condenser pump—a small-sized Selden—10 in. in diameter, 16 in. stroke, supplies sufficient water when making the same number of strokes as the large engine. Steam is sup-

ated to each employe on the road; and a strict observance of se rules insures safety in operating the road, if the same is

these rules insures safety in operating the road, if the same is kept in good condition.

We have given considerable attention to our maintenance of way, and I enclose you a circular which it was thought advisable to issue, in order that each of the track-men might be posted, and with it I enclose plates showing the rails and splices, etc., with a circular giving specifications for cross-ties and manner of putting in our crossings, all of which will give you an idea of what is considered standard track.*

Our effort is to educate young engineers in the maintenance of road by placing them alongside of old supervisors who have had long experience, and in that way our assistant engineers are passed through each branch in the Maintenance of Way

We have an annual inspection of road bed, which is made by the officers, supervisors, assistant supervisors and track fore-men. They mark up the condition of every part of the road, and from these marks is deduced an average condition of track, which is published for the information of all track employes.

se a set of the sheets showing the result of last year's ection.

The inspection for this year will probably take place about the latter part of October or the first of November, and in pre-paring for it there is always quite a rivalry between each divi-sion and each supervisor's division. Gondola cars are pre-pared with seats so as to accommodate 30 or 40 men each, and by pushing them ahead of the engine, which is done at a speed of not over 12 miles an hour, all have an excellent opportunity

of observing the track.

Premiums are given to the supervisor having the best supervisor's division on the whole road, to the supervisor having

that the higher class of employes are taken from men who have not served a time in other subordinate positions—our conductors being promoted from flagmen and beggagemen who have originally been brakemen.

The rolling stock is also brought to a uniform build.

At the Altoona car shops, which are the main shops on the road, timber is shaped and dressed for each part of the car and shipped to all parts of the road. This timber is worked out by machinery in the planing mills to templates, rendering the building of a car a very small matter; as it only becomes necessary to put these parts together. This is rapidly done, giving the Altoona shops a capacity of about 10 to 15 freight cars per day and 8 to 10 passenger cars per

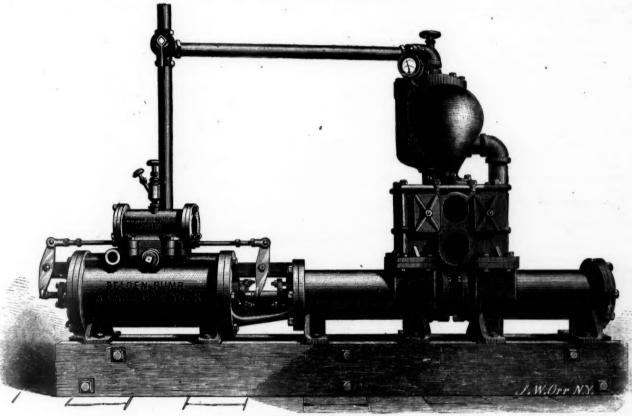
month.

The recent work of building three postal cars in 13 working days was accomplished without much inconvenience, and to such perfection that they were placed upon the road and run over the Middle Division from Altoona to Harrisburg, on day express schedule, without a stop, with perfectly cool journals. It is the effort constantly to infuse energy and enthusiasm in all the work of the company, and the employes of the road are kept up to this by premiums and inspections, bringing about a rivalry between divisions which results in both economy and safety.

I trust you will excuse the hasty summary I have given; but it may aid you, perhaps, in forming some idea in regard to the operating of the road.

G. CLINTON GARDNER.

General Superintendent. [The reports of results of track inspection .or 1874 a.e given in large printed sheets, fourteen in number, twelve being covered with the reports of 22 supervisors' divis-In these there is a column for each sub-division



THE SELDEN DIRECT-ACTING

plied by two horizontal tubular boilers and a Kelley's patent the best supervisor's division on each division of the road, and

This pump complete, erected in place, and including two tubular boilers (the foundation for pump and boilers being furnished), costs but \$15,000. And should the work of the engine make it an object to secure greater economy in the consump-tion of fuel than can be accomplished in the single condensing engine, this may be compounded by adding a smaller steam engine, this may be compounded by states into the present cylinder, from which the steam will exhaust into the present estimated by the builder at \$2,500, and the saving in fuel to be

effected thereby at 30 to 35 per cent.

For the above data and description we are indebted to The Engineering and Mining Journal.

Contributions.

The Working Regulations of the Pennsylvania Railroad.

[The following communication, accompanying the Book of Rules and a number of circulars of the road, was sent to this office originally in response to a request sent to the Pennsylvania Railroad Company for information for an eminent European railroad engineer. At our request, Mr. Gardner permits us to print it.—Editor Railroad Ga-

ALTOONA, Pa., Sept. 22, 1875.

To THE EDITOR OF THE RAILBOAD GAZETTE:

Your favor of August 19 to the General Manager, which was referred to this office, has been held for want of time to reply, and I regret that even now I am unable to give it more atten-

I enclose you a copy of our Book of Rules, which is distrib-

to the foreman having the best foreman's division on each su-pervisor's division, and this is determined from the final sheets after being worked up from the marks made by each person on

In the Motive Power Department we take young men who are thoroughly grounded, and instruct them for three or four years in the shops, passing them through the Mechanical En-gineer's office, giving them practical knowledge and experience

In this way there is a gradual promotion going on through each branch, and the company obtains the benefit of not only the theoretical but also of the practical knowledge of its em-

For your information, I inclose a circular giving our stan-dard engines, which from long experience have been improved from time to time and brought to their present state of per-

In adopting a standard, uniformity of machinery is attain reatly reducing the amount of stock on hand without delay-ng repairs in cases of breakages, but enabling them to be made at the shortest possible notice, since many of the principal arts are common to all classe

In running our engines we have adopted a system of pre-miums, making it an object for each engineman and fireman to work their engine to its full capacity and as econom. cally as

The amount of fuel per car per mile is changed from time to time to suit circumstances, being made up monthly from the monthly averages.

The enginemen are promoted from firemen who have entered the service originally as brakemen, and it is seldom

*These have been published he

head by its name and that of the man in charge. There are lines for "Line and Surface," "Joints," "Ballast," "Spacing Ties," "Switches," "Sidings," "Ditches," "Road Crossings," "Station Grounds," and "Policing." Figures opposite these designations give the rank of the sub-divisions in their several qualities. Thus one is marked 7.4 for line and surface, 5.7 for spacing ties, 5.8 for station grounds, and 6.1 for general condition—the average of all the other marks. The mark for perfection is 10. At the foot of the column of marks there are remarks on the sub-division, as, "Road-bed on this sub-division good. Extra attention is necessary on account of a mile of new siding and two bridges which require watch-ing during high water to keep drift from doing damage." A single sheet gives the results of the inspection by supervisors' divisions, having a column for each of the qua ties marked and a line for each division with the supervisor's name. The averages for all qualities on the Main Line vary from 7.50 for John G. Craig's supervisor's division of the Philadelphia Division to 5.59 on the fourth supervisor's division of the Middle Division, the whole Main Line averaging 6-09. A brief account of last year's inspection, written by Mr. Wm. H. Brown, Engineer of Maintenance of Way, was published on page 476 of the last volume of the Railroad Gazette.

We publish in full the following circular:

CLASSIFICATIONS OF STANDARD ENGINES.

CLASS A. Standard Passenger Engine—17 x 24-in. cylinders, 66-in. drivers.

Class B. Mountain Passenger Helper—a modification of Class A, being in all respects like it, with the exception of the

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cylinders, which are 18 x 24 in., the drivers, which are 60 inches in diameter, and the boiler, which is larger.

Class C. Used for local and fast freight, and for passenger engine. Another modification of Class A—differing only in the diameter of the drivers, which are sixty inches in diameter, and the boiler, which is larger.

Class C. "Anthracite." Same as Class C, with exception of boiler and fire-box, which are larger.

Class D. Standard Ten-Wheel Freight Engine—18 x 22-in. cylinders, and 54-inch drivers.

Class E. Mountain Ten-Wheel Freight Engine—a modification of Class D, differing only in the drivers, which are 48 inches in diameter, and the boiler, which is larger.

Class F. Standard Six-Wheel Shifting Engine—15 x 18-in.

© linders, with 44-inch drivers.

Class G. Standard Light Passenger or Ballast Engine—15 x 22-in. cylinders, with 55-inch drivers.

Class H. Standard Six-Wheel Shifting Engine with Tender—15 x 22-inch cylinders, with 44-inch drivers.

Class H. Standard Six-Wheel Shifting Engine with Tender—15 x 22-inch cylinders, with 44-inch drivers.

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Class H. Standard Six-Wheel Shifting Engine with Tender—15 x 22-inch cylinders, with 44-inch drivers.

Class Gonsoldation—Ten-Wheel Freight Engines—20 x 24-in. cylinders, with the inch drivers.

Class H. Standard Six-Wheel Shifting Engine with Tender—15 x 22-inch cylinders, with 44-inch drivers.

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Class H. Standard Six-Wheel Shifting Engine with T

Circulars give a list of the tools and fixtures which each engineman must know personally to be on his engine, and for whose gool condition he is held responsible. Those for each passenger, freight and work engine on the Amboy Division are: 2 jack-screws and levers, 2 twoking wrenches, 1 eccentric set-screw wrench, 1 two-ended cylinder-head wrench, 1 two-ended spanner wrench, 1 large two-ended S wrench, 2 monkey wrenches (12 and 15 inches), 1 hard hammer, 1 soft hammer, 1 twogallon oil can, 2 one-gallon oil cans, 1 quart oil can, 1 tallow bucket, 1 tallow pot, 1 cab lamp, 1 tank bucket, 1 log chain, 1 pinch bar, 1 head lamp complete, 1 red lamp, 2 lamps, 2 green lamps, 2 combination lamps, 1 tin torch, 1 red flag, 4 green flags, 2 white flags, 1 axe, 1 shovel, 1 poker, 1 hook, 1 scraper, 1 coal pick, 3 tin boxes, 1 packing hook, 1 saw, 1 broom, 1 spare brass, 1 sponging iron, 2 wooden cross-head blocks, 1 scrub brush, 6 explosive caps, 1 sponge, 1 book for fuel, 1 book

for stores. In addition, passenger engines must carry 1 tank rope, 1 gallon can, 1 section of hose with couplings for air brakes; and freight and work engines, 1 push pole and 1 tank rope.

are some fifty circulars announcing premiums offered to enginemen and firemen for economy in the use of coal. These are issued for each division for each month, the standard varying somewhat from time to time. These premiums are of a kind which every engine may win, not being for the one showing the greatest economy in fuel, but for all that consume less than a given number of pounds

The following is a copy of the circular for the Philadelphia Division, showing the premiums offered for the month of September:

PENNSYLVANIA BAILBOAD COMPANY-PENNSYLVANIA BAILBOAI

Philadelphia Division NOTICE TO ENGINEMEN AND FIREMEN.

The following premiums will be paid for the month of Sep-imber, 1875, to all enginemen and firemen whose fuel account or car per mile is reduced to the limit fixed below:

	puno	al per	Premiums per		
Engine Runs.	Mileage per round trip.	Limit lbs. coal p	Engineman.	Fir man.	
	212	5.0	cts.	ets.	
liagara and Day Express	212	6.2	33	22	
Vay Passenger and Elmira Express	212	5.0	33	22	
dail and Harrisburg Express	212	4.0	33	22	
Pacific Express	212	5.0	33	22	
Cincinnati Express and Fast Line	212	4.7	33	. 22	
Atlantic Express and Fast Line	212	3.4	33	22	
Harrisburg Accommodation	218	5.6	27	17	
ancaster Accommodation	162	9.6	20	13	
Parkesburg Accommodat'n (Anthracite)	128	15.5	15	10	
Paoli Accommodation (Anthracite)	128	16.8	15	10	
Paoli Accommodation (Bituminous)	128	14.9	15	10	
dation	81	8.0	09	06	
Downingtown Accommodation	128	12.0	15	10	
Freight, Philadelphia and Harrisburg.	218	2.6	40	27	
Freight, Philadelphia and Columbia Freight, Philadelphia and Columbia.	162	3.5	33	22	
Consolidation Engines	162	3.1	33	22	
Freight, Columbia and Harrisburg Freight, Columbia and Harrisburg.	56	2.8	18	12	
Consolidation Engines	56	2.2	18	12	
Local Freight, Philadelphia and Colum-	440		-		
bia Local Freight, Columbia and Harris-	162	4.3	25	15	
burg	56	4.5	15	10	

By order of the General Superintendent.
THEO. N. ELY, Supt. Motive Power,
WM. F. LOCKARD, Supt. Philadelphia Divisio OFFICE SUPT. MOTIVE POWER, ALTOONA, Aug. 24, 1875.

The amounts here offered are sufficient to make a substantial addition to the wages of the men who run the engines. Of course the limit of coal per car per mile may be put so high that there would be very little chance of getw it with ever so much pains, in which case the men would probably not try to get the premium ; or it might be set so low that the premium could be got almost

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without effort: but experience must soon teach the officers what limit is most effective, and it can be changed to suit circumstances. An examination of the circulars for the Philadelphia Division shows that in February the premiums for the Atlantic express and fast line were 42 to the engineman and 28 cents to the fireman, and the limit of coal per car per mile 3.8 lbs: In March the limit was lbs., and the premiums 40 and 27 cents; in April the limit was 3.9 lbs., the premiums as in March; in May the limit 3.7 lbs., the premiums unchanged; in June the limit 3.5 lbs., the premiums 33 and 22 cents, the latter remaining anged since; in July the limit was 3.3 lbs., in August 3.3, in September 3.4.—EDITOR RAILROAD GAZETTE. 1

Haslett's Drawing-Scale Guard.

Every draughtsman knows the annovance in using an ordiat a glance the particular scale which is used. In order to find the one which is wanted the scale is turned over and over, often only to find that it must be turned "end for end" in order to use the scale wanted. The little instrument illustrated by the engraving herewith is intended to obviate interacted by the engraving netewith is intended to obviate the difficulty referred to, and it does it so simply and effectually that we think it will commend itself to every experienced draughtsman. It consists of an elastic metallic "clip," which is sprung on so as to clasp the scale as shown in the engraving. It can be removed in an instant, and placed in a different position if desired. On one side it extends down so as to cover over the marks and figures on the edge of the scale not in use. The other side leaves the scale to be used free to the sight, so that a draughtsman can distinguish it at a glance. The cylindrical portion of the guard furnishes a very convenient attachment for handling the scale, and it indicates at once the position it should occupy when in use. It thus saves a great deal of time and annoyance, and will prevent many errors due to the use of the wrong scale.

It is the invention of Mr. Sullivan Haslett, of No. 115 Clinton street, Brooklyn, and is manufactured by Messrs. Keuffel & Esser, No. 116 Fulton street, New York.

Fig. 1. HASLETT'S DRAWING-SCALE GUARD.

Semi-Annual Convention of the General Passenger and Ticket Agents' Association.

The following is the official report published in the Official Railway Guide

This Association met at Saratoga on Friday, Sept. 17, President D. M. Boyd, Jr., in the chair. After the calling the roll the Convention proceeded to elect a member of the Executive Committee. Messrs. J. Daily and Chas. P. McFadden were chosen tellers; at the second ballot, C. K. Lord, General Passenger and Ticket Agent of the St. Louis, Kansas City & Northern Railway, was elected as a member of the Executive Committee.

Passenger and Ticket Agent of the St. Lovis, Kansas City & Northern Railway, was elected as a member of the Executive Committee.

The Convention then listened to an able and interesting essay on subjects of general interest to the members, delivered by A. V. H. Carpenter, Esq., the text of which will be given in our next issue. After the delivery of the essay, the Convention adjourned until 3 p. m.

When the Convention had re-assembled, S. F. Pierson was chosen to deliver the essay at the next Convention.

A motion then prevailed to suspend the regular order of business and to take up the miscellaneous business.
On motion of F. R. Myers, the time for the future meetings of the Convention was changed from the third Fridays of March and September to the second Fridays of the same months.

The Executive Committee submitted the following report:
As to matters referred for report.

1st. In relation to the so-called "Kingsbury Ticket and Baggage Check," we refer the subject back to the Association without recommendation.

2d. In relation to settlement of ticket balances, we recommend that the generally-adopted practice of drawing for the actual balances instead of for the face of reports be adopted as the rule of the Association.

As to new business:

1st. We recommend the consideration of excursion rates and forms of tickets for the Centennial season of 1876.

2d. That the practice of accepting tickets issued by individuals or firms not recognized by this Association be discontinued.

B. W. Weenn.

B. W. WBENN, JNO. N. ABBOTT, E. St. John,

The report of the Committen was accepted and approved, except as to the acceptance of tickets issued by individuals or firms, which was laid on the table.

By invitation of the President, the Convention was then addressed by D. Torrey, Esq., Chief of the Bureau of Transportation of the Centennial Commission, who urged upon the Convention the advisability of making a liberal reduction in the rates of fare to Philadelphia during the International Exhibition of 1876.

The Convention passed the following resolution:

tion of 1876.

The Convention passed the following resolution:

Resolved, That a committee of thirteen be appointed by the
chair to present a basis for rates and forms of tickets to be
issued for passengers going to the International Exhibition of
1876 at Philadelphia.

The President appointed as this committee: Messrs. Carpenter, Abbott, Cole, Wontworth, Daily, Kimball, Atmore, St.
John, Pierson, J. W. Cary, Ford, S. E. Allen and D. M. Boyd,
Jr.

Jr.

The Convention then proceeded to choose a location for the next meeting. At the first ballot there was no choice. The second ballot resulted as follows: Jacksonville, Fla., 31; San Francisco, 23; St. Louis, 5; Baltimore, 1.

The Convention then resolved itself into a committee of the

whole on the subject of rates, and W. P. Johnson was elected Chairman of the Committee.

Chairman of the Committee.

The Convention remained in Committee of the Whole on Rates until Monday at 6 p. m., when the Committee rose and resolved itself into Convention to hear the report of the Committee on Centennial Rates.

Rates until Monday at 6 p. m., when the Committee rose and resolved itself into Convention to hear the report of the Committee on Centennial Rates.

The Committee reported through the Chairman, A. V. H. Carpenter, that they had met, and W. F. Allen, Editor of the Official Guide, was elected Secretary. After holding three sessions, they adopted the following resolutions:

Resolved, That as we cannot agree upon a basis for the reduction of rates during the International Exhibition of 1876 at the present time, we request permission to sit during recess, and to report to the members of the Convention by circular the result of our deliberations.

Resolved, That a sub-committee of three be appointed from the members of this Committee to prepare a form of ticket for the Centennial travel, and that each member of the Committee be invited to prepare a form of ticket, and present it to the Sub-Committee for consideration.

Messrs, Cole, Abbott and Boyd were appointed as this Sub-Committee.

Fig. 2.

ommittee.

It was further

Resolved, That whatever reduction of rates be made shall be pon the basis of round-trip tickets, good for a period not to xeed thirty days from the date of issue except upon the lines rest of Omaha, which lines shall be authorized to make such imit as they may deem necessary for the proper accommodation of their regular presiness.

west of Omaha, which lines shall be authorized to make such limit as they may deem necessary for the proper accommodation of their passengers and the protection of their regular business.

Resolved, That for the purpose of securing for each and all of the railway and transportation lines of the country a full, fair and suitable representation in the sale of tickets in the International Exhibition of 1876, and for the further purpose of enabling the Bureau of Transportation of the Centennial Commission to offer to visitors from all parts of the world the most ample facilities for making tours through our country, we ask the Convention to adopt the following resolution:

Resolved, That the Committee on Centennial Affairs be empowered by the Association to negotiate with the authorities of the International Exhibition of 1876, at Philadelphia, for the use of a suitable building wherein to conduct the sale of tickets over the transportation lines of the United States and Canada, and to arrange for the employment of such agents and clerks as may be necessary to conduct the business; and that the Committee be further empowered to arrange for the sale of excursion tickets from Philadelphia at the same reduced rates as may be adopted in ticketing to Philadelphia, the necessary expenses of such arrangements to be borne by the transportation companies in proportion to the gross revenue received by each from the sale of tickets in the Exhibition.

The report of the Committee having been adopted the Convention again resolved itself into a Committee of the Whole on Rates, and continued in committee the Whole on Thursday when the completed sheet was reported to the Convention and adopted.

The Committee on Lost and Stolen Tickets asked further time, which was granted. Permission was given the Convention was held, and for the courted of the Association.

The following rew members were enrolled:

James Daily, G. T. A., Boston & Providence Railroad.

John C. Printup, G. P. and T. A., Rome Railroad and Georgia & Alabama Steamboa

F. Spaulding, G. T. A., New London Northern Railroad. B. Williams, G. T. A., Chicago, Danville & Vincenne Railroad.
H. C. Wentworth, G. P. and T. A., Michigan Central Rail-

18d.
 F. E. Snow, G. P. and T. A., Canada Southern Railway Line.
 D. J. Flanders, G. T. A., Boston & Maine Railroad.
 O. G. Murray, Asst. G. T. A., Galveston, Harrisburg & San Itonio Railway.
 S. W. Chungings, G. P. A. Central Vermont Railroad.

onio Railway. W. Cummings, G. P. A., Central Vermont Railroad. . F. White, G. T. A., Atchison, Topeka & Santa Fe Rail-

The attendance at the Convention was very large, all tions of the country, from Halifax and Jacksonville on the to St. Paul and Galveston on the West, together with the leading to the Pacific Coast, being fully represented.

Tests of Beams, Girders and Columns.

JULY 19, 1875.

A Committee of the United States Board appointed to test Iron, Steel and other Metals has been instructed "to arrange and conduct experiments to determine the laws of resistance of beams, girders and columns to change of form and to fracture." This Committee, desiring to attract to this branch of the inquiry the best talent and experience of the country, in order to reach results of the greatest practical value, solicits the aid and co-operation of all who manufacture or use beams, girders or columns.

Many experiments have been made by the rolling-mills engaged in the manufacture of wrought-iron beams, the results of which have doubtless been carefully recorded and tabulated. The Committee earnestly asks copies of such records and tables. Engineers, architects and manufacturers have also made many experiments upon cast-iron beams and riveted wrought-iron struts and girders, the results of which are respectfully requested by the Committee.

It is desirable that information as full as may be obtainable, with reference to the constitution and manufacture of the iron used in making the pieces tested, should accompany reports of experiments, especially chemical analyses of the metal, where these have been carefully made.

The proportions of the various parts of the samples tested should be exactly given; and in all riveted work the size and position of the rivets should be clearly set forth. In all cases the modes of applying and measuring the strains should be given.

given.

Accurate cross-sections of the samples tested, drawn to scale, large enough to admit of reliable measurements, will greatly facilitate a proper understanding and analysis of the results. During the construction of the machinery ordered by the Board, the Committee desires to collect information as above, and to make such experiments as seem practicable by the use of dead loads. For these experiments, and for those which will be made when the machinery is ready for use, manufacturers are asked to supply such beams, girders and columns as they may desire to have most carefully and impartially tested.

It may be of interest to those who was the contraction of the sample of th

It may be of interest to those who are thus asked to contrib-

nte costly articles for destruction by tests, to be informed that the machinery ordered is believed to be the best yet designed for testing purposes, and to possess all the nicety and accuracy attainable with the present knowledge of machine construction. The first machine will have a capacity of four hundred tons (800,000 lbs.); and this will be replaced by another of 1,000 tons (2,000,000 lbs.) capacity at an early day.

All suggestions as to the kind of tests to be made, and the manner of making them, calculated to give them the greatest practical value, will be gladly received; and for these and all other assistance rendered, proper acknowledgments will be made. Sample beams, girders or columns, furnished for test, should be stamped at one end with a distinguishing number, trademark and initials of the maker, and forwarded to Col. T. T. S. Laidley, President of the Board, at Watertown Arsenal, Watertown, Mass.

Reports of tests already made, and all other information herein asked for, may be forwarded to the Chairman of this Committee, at Maywood, Ill.

WM. SOOY SMITH, C. E., Chairman, Maywood, Ill. Lieut.-Col. Q. A. Gillawork, U. S. A., Army Building, New York City. Chief-Engineer D. SMITH, U. S. N.,

Washington, D. C.

The Regulation of Railroads by Law.

We present below, greatly abridged, but with some passages in full, the address made on the 30th ult. by Charles Francis Adams, Jr., at the North Wisconsin Fair at Oshkosh.

We present below, greatly abridged, but with some passages in full, the address made on the 30th ult. by Charles Francis Adams, Jr., at the North Wisconsin Fair at Oshkosh.

Mr. Adams began by reference to the heat with which political questions are usually discussed at the time they come up. A few years later, when those questions are settled, or are no longer prominent, the great excitement about them seems abourd. This was illustrated by the career of Andrew Johnson, of whom those year men spe k kindly and appreciatively who some years before called him the greatest criminal of this or any other ago. The speaker would that call the farmers of Wiscondies, nor liken them to feudal robber barons, but try to look things as they really are, to detail his own experience, as submit his conclusions therefrom and the results he is now working for. He said:

"I will begin by asserting a fact—some may at first feel disposed to deny it, but, I think, a calmer retrospect will yield assent to it. Of all the wonderful phenomena in the growth of this wonderful railroad system there is not one so well calculated to excite our special admiration as the case, the absence of friction, so to speak, with which, taking it altogether, it has adjusted itself to existing political and social organizations. In this respect compare it with more momentous and noisy episodes in history. The French Revolution, for instance, was certainly a very considerable civil convulsion, and, after shaking society to its foundations, lett behind it a world forever different from that which proceeded it; yet, in spite of its try and tumult, how small and insignificant seem even the political results brought about by that Revolution compared with those already wrought in the quiet progress of the railroad era began; it had 30,000 souls in 1840, 300,000 in 1850, and nearly four times as many now.

"The railroad system had made Wisconsin possible. Without opposite the political results and West, and now let us fairly and dispassionated to the political re

There is, however, another cause of trouble in connection to the railroad system far more general in its nature. Perse, owing to the peculiar industries of the Western States, their great distance from their markets and sources of supthis difficulty, also, has made itself felt more distinctly than elsewhere. I am inclined to think it has; but it is the the less a difficulty common to Massachusetts, with Wissin, and destined, as I believe, to be felt more in the future in it is now.

none the less a difficulty common to Massachusetts, with Wisconsin, and destined, as I believe, to be felt more in the future than it is now.

"When they came into existence forty years ago, railroads brought with them some queer results as affecting certain theories on which we had based both our government and political economy. We here in America about that time thought that we had things beautifully arranged; we were never tired of saying that the old world had hitherto been governed a great deal too much, and that the model republic had no business to concern itself in any way with industrial enterprises; that these, of whatsoever name or nature they might be, would regulate themselves if only left alone to do so under the unimpeded action of the law of competition or supply and demand. Of course, when the existence of railroads became an established fact, they were classed at once with all other established industrial facts under the new governmental and economical dispensation. Accept them, it was said, and leave them alone. Do you not see hew bread factories, and aboe factories, and cotton factories regulate themselves if the State only cries "Hands off!" If you have but faith it will be the same with railroads. It was the teaching of Adam Smith carried to its logical conclusions and applied universally. It was also free trade run mad. Now there are few things better and wiser than free trade in its place. Its place, too, is a very large one—as large, indeed, as the broad limits

within which the laws of supply and demand, of competition, returns when the laws of supply and demand, of competition, tunisely the railroad system does not belong in this class; it is in its nature a close field. At the very commencent is the property of the prope

ing solely with facts and providing for the present and not for 'posterity, they would not be surprised that marvelously rapid growth had developed glaring abuses; the only wonder is they are not greater. These abuses concern the owners of the road on the one hand, and its customers on the other.

"The public on the one hand has suffered from the extortions, inequalities and favoritism incident to a fierce competition tempered by close combination and varied by absolute monopoly, while, on the other hand, a system of reckless construction and loose, extravagant, irresponsible administration has more than once led the owner blindfold to ruin; in other words, while the mania of railroad construction was raging, the public was alternately petted and robbed, and the stockholder was cajoled and plundered."

There was nothing about this to puzzle over and be profound about; the only question is, what are you going to do about it?

and the stockholder was cajoled and plundered."

There was nothing about this to puzzle over and be profound about; the only question is, what are you going to do about it?

"To answer this question the practical man would undoubtedly, in the first place, satisfy himself as to the conditions under which the system had grown up. He would see that the difficulty arose from the mustaken attempt to control monopolies by competition; but he would clso see that in sober truth our political system does not admit of a successful participation by covernment in business undertakings. Finally, and, perhaps, most significant conclusion of all, he would decide, after weighing all the pros and cons, that, when all was said and done, the railroads, in spite of passing defects, both of organization and control, did yet perform their work with wonderful efficiency and accuracy, and that, through them, results once deemed fabulous had now become matters of such daily occurrence as to excite no attention at all.

"Now, I am obliged to confess that under such conditions as these, your practical statesman would at once sweep aside the deep insight and violent remedies of the theorist, saying, wisely enough, that the next generation would, doubtless, prove competent to regulate its own affairs, but his mission was to attend to those of the present. Neither, I imagine, would have recourse to the constable; on the contrary, he would especially seek to be delivered from his assistance. I fancy he would seek to be delivered from his assistance. I fancy he would seek to be delivered from his assistance. I fancy he would seek to be delivered from his assistance. I fancy he would seek to be delivered from his assistance. On monopolies, to whom is committed one of the most essential functions of modern civilization. It has abused its trust in the past; the question is how to prevent its doing so in the immediate future. What is it that the society of our time always depends on for the correction of abuses, and almost never depends in vain?

we do it in our own way, we always will call on the constable, and we won't be satisfied by throwing the windows wide open so that the whole people may see, and then trusting to them to reform."

Mr. Adams then related the experience of Massachusetts and of himself as a railroad commissioner of that State, from the beginning, six years ago, much as he has done it heretofore; how he first thought the law giving the commissioners authority only to investigate and report to the legislature to be incifective, because it gave them so little power; how this opinion had been changed by his experience, which showed that the railroad companies are, to a remarkable degree, amenable to public opinion; so much so, that whenever any complaint has been invostigated by the commissioners and found by them to be well founded, in every instance their recommendation to the company has been finally respected.

He was sure that this system would work fully as well in the West, notwithstanding the fact that the roads there are owned by non-residents. The difficulty is that Western communities have no machinery through which to formulate their demands and concentrate public opinion behind them.

Another thing aimed at in Massachusetts was to secure uniformity and absolute publicity in railroad accounts, and that in all the States.

"This I believe to be the one vital, radical, all-important measure of railroad reform, in itself including all others. The books of all our railroad corporations should, I do not hesitate to say, be kept on an exactly uniform system, and, like the National Banks, under a rigid public supervision. This, too, for the protection of the stockholder and bondholder no less than for that of the community. An altogether too murky darkness has been hitherto jealously preserved over the intricate science of railroad becokeeping, and under cover of it endless frauds have been perpetrated; that it is which has led to the sbuses of stock-watering and made railroad financiering a proverb. And for what? Only to result i

hamper them; and how steadily, unitedly, and yet unconsciously they work towards that unity which some successor of theirs, in the next generation, perhaps, will accomplish. What will then result, our political philosopher, perhaps, might foretell; I certainly cannot. Of one thing only do I feel convinced, and that is that, through law or over laws—by developing existing political systems or by gradually substituting others in place of them—in this generation or in the next, some how or in some way, the Government and the concentrated railroad system of the future must and will come together and merge in each other."

Political philosophy, and statute books of late have been filled with laws intended to regulate affairs. The limits of effective and the central political philosophy, and statute books of late have been filled with laws intended to regulate affairs. The limits of effective and the cheapest railroad correction, however, are very narrow, and nine laws out of ten rather defeat than further their objects. In his opinion the force system was all wrong; investigation would show the utter futility of the larger part of our statutes, and, by no means least of all, of those intended to regulate our railroads—"a department of legislation based on the principle that the State must sover itself from all connection with tousiness undertakings, because experience has shown that every such connection tends to waste, to jobbery, and to corruption, and from this desired. I want to see the system so perfected that any laboring man having good cause for complaint against any, even the wealthiest corporations in the country to have recourse in self-protection to systematic legislative corruption, an evil ten times worse to see a machine perfected that any laboring man having good cause for complaint against any, even the wealthiest corporations in the country to have recourse in self-protection to systematic legislative corruption, an evil ten times worse than the worst executive jobbery."

Examining the question in



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ddresses.—Business tetters should be addressed and drafts made payable to The Railboad Gazette. Ummunications for the attention of the Editors should be addressed Editors

contributions.—Subscribers and others will materially assist us in making our news accurate and complete if they will send us early information of events which take place under their observation, such as changes in railroad officers, organisations and changes of companies, the letting, progress and completion of contracts for new works or important improvements of old ones, experiments in the construction of roads and machinery and in their management, particulars as to the business of railroads, and suggestions as to its improvement. Discussions of subjects pertaining to ALL DEPATMENTS of railroad business by men practically acquainted with them are especially desired. Officers will oblie us by forwarding early copies of notices of meetings, elections, appointments, and especially annual reports, some notice of all of which will be published. entributions...

dvertisements.—We wish it distinctly understood that we will entertain no proposition to publish anything in this journal for pay, EXCEPT IN THE ADVERTISING COLUMNS. We give in our editorial columns our own opinions, and those only, and in our news columns present only such matter as we consider interesting and important to our readers. Those who wish to recommend their inventions, machinery, supplies, financial schemes, etc., to our readers can do so fully in our advertising columns, but it is useless to ask us to recommend them editorially, either for money or in consideration of advertising patronage. them editorially, e tising patronage.

MR. ADAMS' OSHKOSH SPEECH.

Although the speech made by Mr. Charles Francis Adams, Jr., at the Northern Wisconsin Fair at Oshkosh on the 30th ult. enunciated few ideas not presented in the speaker's previous utterances, it is yet one of the most otable of his many excellent contributions to the discus sion of the railroad question, and perhaps more likely than any other to have a decided and immediate effect. In the first place, it was, as befitted the place and occasion, a thoroughly popular presentation of the speaker's views clear, earnest, courageous, and attractive those who heard it must have listened with attention, and the many thousands more who read it found it attractive enough to read through, striking enough to remember, convincing enough, we may believe, an enduring effect on their ideas and have an enduring effect on their ideas of some at least of the relations that should exist between the State governments and the railroad corpora-Then, the reputation of the speaker, joined to the fact that his address was made where the "Granger" legislation has been most extreme, naturally led people to supose that his remarks would have a special application to the situation in the Northwest, and men there who could not be got to consider arguments and principles in a Massachusetts report or speech, even when brought to them in their home papers, will many of them read eagerly what the most eminent American student of the relations of railroads to the State may have to say of the situation in Wisconsin. Thanks to the newspapers, Mr. Adams speech has been very widely spread; thanks to himself, it has doubtless been very widely read, in just those States where the laws regulating railroads have most exceeded the limits of the practicable and advisable

What Mr. Adams says, substantially, is, that whatever evils the West may be suffering are probably chiefly the results of over-production, both of farms and railroads. and not of the oppression of transporters, who, he says, suffer as much as farmers; that, however, in the nature of things railroad tariffs are not subject to the laws of competition which govern most other prices; that this distinguishing feature justifies the treatment of railroad busiss differently from other business by the law, and may lead eventually to a special adaptation of government or administration to suit the altered circumstances-not simply to control railroad business, but to suit the changes produced in society by railroads; but that, notwithstanding, efforts to regulate the business of railroads by legis-

likely and that the wisest and most effective preventive of abuses, and at this time, according to his belief and his experience as Railroad Commissioner for six years in Massachusetts, a sufficient preventive of such abuses, is the enforcement by law of "practical uniformity, approximate exactness, and absolute publicity in all railroad accounts; and this not in one State alone, but in all the States.'

Now there is one class of men in the Northwest (and

elsewhere), who will in no way modify their action by reason of the opinions and experience of Mr. Adams or any other man, and they have had more to do with hostile railroad legislation than they get credit for. This class is composed of the politicians who frame their conduct with a view to their political advancement. will talk and vote against railroads and cultivate a hostility to railroads just so long as they can, or think they can, get office in this way. It may be thought that these men only follow a popular feeling, and therefore do not really effect anything different from what the vailing will of the community would bring about at all events. But this is a great mistake. In times when party lines are not well defined, the creation of new issue comes a trade with ambitious office-seekers not likely to get what they want from the party dominant at the time. The man who convinces the community that it is outraged, and proposes a r.form of the abuse, will be man most likely to get consideration from the party which makes that reform its leading principle. And it is cortainly true that the most active men in the beginning of the crusade against railroads, the men who probably did most to create the feeling that the rilroads were oppressing the community, were small politicians, for office, and, under existing circumstances, hungiy not likely to succeed in getting any. If of the dominant party, by creating a prevailing or even formidable sentiment, and appearing as the leader in the movement, they were pretty sure to receive attention from that party when otherwise they would have no influence; if of the minority, they could hope by a new issue to form a majority party with themselves at the head. And the question being out side of the ordinary issues, and not interfering with them the old parties, whenever there seemed to be a considerable number of persons whose votes would be governed by the new issue, have quite generally endorsed it wherever they would not lose votes by such endorsement. no doubt that the hostile legislation of the Northwest has been based upon a sentiment largely of artificial produc tion, and after all not so wide spread as was upposed even by the very members of the legislatures which passed the hostile laws. It is a state of things liable to occur wherever an issue is introduced which has not some interested opponents. Here in a community casting 5,000 votes are a hundred voters anxious for a law reducing railroad tariffs one-half, and (which is the important thing) not one who will vote against a candidate whose party endorses such legislation. Now to a nominating onvention of either party the question presents itself in this way : "If we condemn a railroad tariff law, we shall certainly lose a hundred votes, and we shall not gain one; if we ignore such a measure, we shall certainly gain no votes, and if the other party endorses it we shall lose a hundred; if we endorse the measure, we shall gain a hundred votes if the other party does not do the same shall divide these votes, thing, and if it does we all of which otherwise it would gain." Now there can be but one result under such circumstances. The sentiment of 2 per cent. of the voters determines the declaration of principles, the announced policy of the parties to which the whole number belongs; and, though candidates so chosen for the most part are not very determined in th efforts to carry out the measure promised by their parties, yet it may easily happen, in a State where there is scarcely my interested opposition, that almost every member of the legislature is chosen under a promise to advocate a law which only a small minority of their constituents really

desire.

This would be impossible, of course, if any considerable number of the voters had interests which would suffer by the proposed legislation. And then, too, it would not be possible to create an unfounded hostility even to the extent that such hostility actually exists in the Northwest. But in the actual condition of things, there are few interested in preventing the creation of hostile sentiment, and hardly any interested in denying to this sentiment, even when it is not wile-spread, anything that it may ask. Thus the sentiment of hostility to railroads has ad an almost unobstructed growth in the Northwest, and this sentiment has received a recognition in party platforms, in the selection of candidates, and finally in legislation, vastly out of proportion to the actual sentiment. There has been almost nothing in the way; the parties to be injured were for the most part distant, without local influence, with little more than the justice of their cause to defend them, and that not self-evident and perhaps not well presented, or not presented at all. Now the laws are ed, it seems even more difficult to have them repealed lation positively directing the railroads what they shall than it was to prevent their passage, as it usually is more axle, so that in case of the breakage of any portion of the upper

difficult to have a thing done than to prevent the doing

If the mass of the voters in any State feel that they are actually injured by existing laws, or that their condition may be bettered by different ones, then it will be easy enough to change the present policy; indeed, it will be hard to prevent a change. If the public becomes generally convinced that the existing laws are useless simply, then an effort on the part of railroad proprietors, the parties oppressed, though having little political influence, cure their repeal; not so much because of a desire to favor them as because there are no objections within the State. But as long as a considerable number of voters earnestly favor the existing laws, it will not be easy to repeal them. Such a measure would mean the alienation of voters without attracting any in return.

We do not mean to say that a general sense of the injustice of the laws would not create a popular sentiment against them; it doubtless would and to a considerable extent already has; but it is extremely difficult to make a community composed wholly of customers of railroads, with next to no railroad proprietors among them, consider thoughtfully and without prejudice the proprietors' side of the question, as they would to a much greater extent if their friends and neighbors held railroad bonds and shares. Nearly all the talk they hear and the interests with which they come in contact are on one side of the qu

But what Mr. Adams had to say of the effectiveness of a system which exercises no force ought to and perhaps will have a decided effect. Oppressive as the Wisconsin law has been, it has proved of very little direct advantage to the people of that State and has been undoubtedly indirectly a considerable disadvantage. If the people are

convinced that they will fare better under a system which ecures easy and inexpensive investigation of complaints and publicity in the affairs of the railroads, they will not need much urging from the railroad proprietors to induce them to substitute such a system for their present inflex-

ible regulations.

A Rapid Transit Experiment.

On Saturday last a party of gentlemen were invited by Gen ral Roy Stone, the Phœnix Iron Company and Messrs. Clarke, Reeves & Co. to visit the works at Phœnixville to witness a trial of a new clevated railroad designed by General Stone. The party from New York consisted of Gen. J. G. Barnard, General Wright, Professor Thurston, Dr. Hayes; Mr. Wyman Superintendent of the Greenwich Street Elevated Railroad Mr. John H. Burton, President of the Brooklyn Elevated Railroad Company; Mr. D. Smith, Secretary of the Car-Builders Association; Mr. Frank Thurston, and representatives of New York newspapers. At the Germantown Junction, Mesers. J Newbold, R. H. Lamborn, C. S. Tyson, G. G. White, and Mr. Cole joined the party. Mr. Clarke met the party at Jersey City and Mr. Reeves joined them at Germantown Junction. Later in the day Mr. F. B. Gowen, President, and several of the directors of the Philadelphia & Reading Railroad Company also visited Phœnixville to see the new road.

In design, it belongs to the class of roads usually called sin gle-rail roads, although it reality there are three rails. weight, however, is carried on one rail, the other two serving merely to steady the cars and engine. These are carried on a truss, the cross section of which is of triangular form. rail which carries the weight, which is of the ordinary pattern. uples the spex of the triangle, and the other two the gles adjoining the base. The Phœnix Iron Company has angles erected about 800 feet of track, in which there is a curve of 90 feet radius. The greater part of this is constructed of wood, but two spans were completed of iron, and about half a dozen more iron spans are in progress. These are carried on single Phœnix columns, 8 in. in diameter, attached to cast-iron bed plates, which are bolted to masonry foundations. The trusses mposed of angle iron and flat bars riveted together. top rail rests on a longitudinal wooden stringer 4x6 in, in sec tion. The two side rails consist of angle bars. The dis-tance from the top rail to the base of the triangle is 4 ft. 5 in., and the length of the base is 3 ft. 5 in. The length of the spans is 50 feet from center to center of columns, and the estimated

cost of the structure is \$100,000 per mile of single track.

An engine and car have been built for equipment on this line.

They are of very novel construction. As their weight rests on a single rail, it is necessary to suspend them on this rail, and in order to keep them in position, to place a very considerable portion of the weight below the top rail. They are therefore nade on what, with somewhat solemn facetionsness, has been called the "saddle-bags" plan—that is, they hang as it were on the two sides of the truss. The weight of the car is carried on two wheels, 28 in. in diameter, which have double flanges, and are 12 ft. 9 in. from center to center. The passengers are carried in two tiers, one above the top rail. These latter are seated in longitudinal rows facing each other, as in an ordinary horse car. The lower tiers are one on each side of the truss In these the passengers are also seated in longitudinal rows, but face outwards. The bottom of the portion of the ccupied by these second tiers is very nearly level with the botom of the truss. On the outside of this lower portion of the tom of the truss. car there are platforms, or more properly, running boards, on each side, so that the conductor can pass without incommoding the passenger. The car is supported laterally by two horizontal wheels on each side 20 in. in diameter, also with double flanges and with rubber tires.

These wheels have several inches of vertical motion on their

cross over The car se per passen The run car, but it are of La extensivel this engin pumping etwo cog with steam-tip wheels the aré used, oversed by which it is chief diffic in adapting two vertice It is, there are made toves of 12 in. in d of the chin fed in fron the engin doubtful. Owing t also to the party befor f course, value of Bo more externearly to t mental lin apparent o passengers mngement ne level culties ar plan posse oads in ci engines ru the langua Civil Engir it must apported and that of an

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the produce of this ero other large while the for distrib-mere trifle and if not food for may given The retar ply, the de

ing gear, they would not be thrown off the lower rails. They are placed 12 ft. 9 in. from center to center. The car is m ft. 6 in. long over the body, and 9 ft. 6 in. wide, and 12 ft. 6 in, wide over the outside longitudinal platforms. Acce by which passengers can reach both the upper seats and also cross over the truss to the lower seats on the opposite sides. The car seats 60 passengers, and weighs 8,400 lbs., or 140 lbs. assenger.

running gear of the engine is very similar to that of the car, but its construction is otherwise very novel. The engines are of La France's rotary pattern, which have been used very extensively by the La France Manufacturing Company, by whom this engine and car were built, for steam fire engines and pumping engines. The construction of this engine resemble steam-tight case. If steam is admitted on one side of these wheels the engines are driven in one direction, and if admitted on the other the motion is reversed. Two of these engines are used, one connected to each driving-wheel, and they are rewhich it is impossible to make clear without engravings. The which is in adapting a boiler to it. In the locomotive we are describing, vertical boilers are provided, one on each side of the true it is, therefore, necessary to maintain two fires. The boilers are made on the base-burning principle, similar to ordinary gloves of that kind. That is, they have a vertical central flue in in diameter, which extends from the fire-box to the top the chimney, so that, ludicrous as it may seem, the coal is top of the chimney, Santa-Claus fashion. The two boilers, we feel sure, will prove a very serious objection to the engine, and whether the rotary engines will prove to be gonomical, either in fuel or repairs, is, we think, exceedingly loubtful.

Owing to a change in the arrangement of the exhaust, and also to the absence of a blower, the engine would not steam very freely, and it was an hour or two after the arrival of the party before its operation could be shown to advantage. It is, of course, impossible to form an opinion which will be of much alus of so novel a structure without seeing its operation on a more extended scale, and under conditions approximating more mearly to those of actual practice than those which an experi-mental line of this kind afford. The engine, however, worked very smoothly and passed around the curve of 90 feet radius with papernt ease, and the car affords all necessary comfort of some sengers. A difficulty presents itself, however, in the arangement of switches, and a crossing of one such a line on the mane level with another seems almost impossible. These difficulties are, however, not unsurmountable, and we believe the an possesses some very great advantages for rapid-transit ads in cities. Among these are the impossibility of cars or agines running off the track, or rather off the truss. To quote the language of the Report of the Committee of the Society of Civil Engineers, "a rapid-transit road must not only be safe, but it must appear so," otherwise persons will not ride on it. Another advantage is its low cost, which is less, we believe, than that of any other plan; and a third, the fact that the road structure occupies less space—that is cubic space—in the street than any other. We are, therefore, ready to adhere to what whole three years ago in commenting on a similar road which was built in Aleppo, Syria. As these comments are smally applicable to General Stone's road as to that, we quote what we then said:

inful what we then said:

"The first impulse on seeing and hearing of these plans is to mile at their apparent absurdity, and yet it is by no means setain that they are as Iudicrous as they appear. In fact, on amination it will be found, we think, that the proposed system presents many advantages for a road through a crowded it, where passengers alone are to be transported. It would, is the first place, occupy but little room, and be hardly any obstraction to light, ventilation or travel on the street where its located. The posts could be located at the curb-stone—there telegraph poles are usually placed—ao as not to obstruct either the street or sidewalk any more than it is now. Second, the care would be perfectly safe, as it would be impossible for hem to run off the track. Third, the road and its equipment would both be very much less costly than any of the plans yet proposed for rapid transit in New York.

"These advantages, we believe, are worth serious consideration. It should be remembered, however, that the success of wha project would depend almost entirely upon the way it is worked out, and this could only be done well by persons of the experience, skill, ingenuity and—common sense."

Cotton Traffic.

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The crop year for cotton begins with September. The great se of the crop as an export and as almost the rictable product of a large part of the country, together its compactness and the uniformity of the packages into ch it is made, and the almost total lack of home consumpa, cause the statistics of the product and sales to be kept accurately perhaps than those of any other American When we say there is almost a total lack of home con-eption, we do not mean, of course, that no cotton is coned in the United States, or even that none is consumed in States that produce cotton; but that scarcely any is used the plantations which produce it. In this it is quite unlike Puls. It is simply impossible to collect accurate statistics of production of corn in this country, for the reason that most is crop is devoured on the very farms that produce it, and ther lan ge portions are consumed in the neighboring to while the part that reaches the great grain centers is distribution to distant markets, either home or foreign, is a law trifle compared to the whole. The same is true of oats; adif not true of wheat, it is because wheat is used only as on, and we know approximately the population regiven time, and the average consumption per individual.

The returns of the crop of 1874, with the sources of the sup-

minations, and the quantities moved by the leading are given in a late number of the Commercial and Chronicle, which is an acknowledged authority on

The receipts of cotton for the two years past, and the exports, have been, in bales:

Exported. 2,084,708 2,840,981

The average weight of bales was 468 pounds in 1874-75, and 469 the average weight of bales was 468 pounds in 1874-75, and 469 the previous year, and the total tonnage of the crop was 978,371 tons in the earlier, and 893,467 in the later year, the decrease being 84,904 tons, or 8½ per cent. The whole crop has about the weight of two weeks' production of the Pennsylvania anthragits each weight. cite coal mines, or two months' shipments of grain from the lake ports.

Of the whole crop 70 per cent. was exported last year, and 68 per cent. the year previous. The domestic consumption fell off about 9 per cent., the exports 6 per cent. The primary receipts at the leading ports, excluding receipts at one port from another port, were, in bales:

				ntage rops.
	1874-75.	1873-74.	1874-75.	18/3-74
Galyeston	368,283	389.045	9.5	9.3
New Orleans	993,775	1,221,698	26.0	29.3
Mobile	320,822	299,578	8.4	7.2
Fernandina	10,982	14.185	0.3	0.3
Bavannah	603,246	625,857	15.8	15.0
Charleston	438,897	438,194	11.4	10.5
Wilmington	101,715	57,895	2.6	1.4
Norfolk	418,114	505,876	10.9	12.1
Interior points	446,674	489,534	11.7	11.8
Manufactured South	130,483	128,526	3.4	3.1

he receipts as they first reach the sea-board, and not where the cotton is first marketed or even at the primary distributing market. Memphis, for instance, shipped 427,001 bales in 1873-74, and 325,263 in 1874-75; but last year 21 per cent. of these shipments went to New Orleans and 28 per cent. to Norfolk and other ports, and this part of the shipments are counted with the receipts of these ports.

are counted with the receipts of these ports.

Last year 43.9 per cent. of the crop was received at Gulf ports; the previous year, 45.8 per cent. The proportions of shipments direct to Northern markets were about the same in both years—11½ per cent. New Orleans, though receiving more than a half more than any other port, lost the most ground. Mobile, Savannah, Charleston and Wilmington rose in position, and Galventon slightly. The relative proportions, however, of and Galveston slightly. The relative proportions, however, or the leading ports have not changed sufficiently to alter n in the rank receivers. The order was New s, Savannah, Norfolk, Charleston, Galveston and Mobile in 1873-74 ; it was New Orleans, Savannah, Charleston, Norfolk Galveston and Mobile last year. Charleston and Norfolk change places; the rest remain as they were.

The only places showing an absolute increase in their cotton raffic are Charleston and Wilmington, the former a slight one.

the latter nearly 80 per cent.

Not very long ago most of the cotton of the South reached the seaboard by river steamboats; there remains a large m ment on the Mississippi and its navigable southern tributa and some on the streams having their outlet at Mobile, and there are steamboats in some of the rivers which carry to rail-road lines, but the greater part of the cotton now reaches the seaboard by rail, and much and an increasing proportion is sent long distances by rail, as from Memphis to Norfolk, and even from Texas by way of St. Louis to New England manufacturing

The rail shipments to manufacturers and to Baltin ports further north are reported to have been 461,761 bales, or 12.05 per cent. of the crop last year, against 497,083 bales, or 11.9 per cent. of the crop, the year previous. Of these over-land shipments, last year 241,335 bales, or 52 per cent., went to New York, Boston, Philadelphia, Baltimore and Portland, and were partly exported.

amounts of these shipments by the different routes are given as follows by the Commercial and Financial Chronicle by whose figures for this year we have placed those given by it last year, for the sake of comparison:

ı	It tabe Jour, for the bane of comparison.		
ı		1874-75.	
ı	Shipments for the year from St. Louis	123,805	92,19
ı	Cairo, &c	37,972	4.60
ı	Carried North over Cairo & Vincennes Bailroad	30,683	16.78
١	Carried over Mississippi River above St. Louis	8,474	6.14
ı	Carried North over St. Louis & Southeastern, less		
1	deductions	5,458	6,60
ı	Carried North over Evansville & Crawfordsville, less		
ı	reshipments	9,376	27,74
ı	Carried North over Jeffersonville, Madison & Indian-		
ı	apolis R. R		134,09
١	Carried North over Ohio & Mississippi Branch	67,944	82,63
١	Carried over Wash. City, Virg. Mid. and Great		
ı	Southern R. R., from Danville to Baltimore	31	
ı	Shipped through Cincinnati by Louisville, Cincin-		
ı	ati & Lexington B. R.	21,189	31,77
1	Receipts at Cincinnati by Ohio River	34,086	71,50
١	Shipped to mills adjacent to river and to points		01.00
١	above Cincinnati	12,000	21,00
Ì	Total carried overland	461,751	497,08
		_	

This overland movement as a whole, therefore, show decrease of a little more than 7 per cent, which is less than the decrease in production. In the earlier year 11.9 per cent. d by these routes; last year 13 per cen great changes are shown in the quantities by different routes The movement by St. Louis increased one-third, that by Louis one-fifth. The opening of the Mis Texas, and the St. Louis, Iron Mountain & Southern roads to Texas connections have greatly increased the advantages of St. Louis as a cotton market, and it has already become a respect able one, having shipped last year an eighth as much as New Orleans, and a third as much as Galveston.

Government Survey for a Railroad from the Tennessee River to the Atlantic.

One of the recommendations of Senator Win Committee on Transportation was for the survey of a route for a freight railroad from navigable waters of the Tennessee a freight railroad from navigable waters of River to tide-water. Mr. John E. Thomes, who was engaged in the surveys for the Union Pacific, the Northern Pacific and the Texas & Pacific railroads, was put in charge of this survey

this crop. From it we obtain the figures on which this article | The line surveyed begins at Guntersville, Ala., on the big bend of the Tennessee River, which is the point on the river nearest the Atlantic. There was no point specified for the tidewater terminus of the line, the or lers being to find the line which would make the cheapest route for a freight railroad. The engineer decided that such a line would be the one with the est harbor at tide-water, the lightest grades and the best For the harbor Brunswick, in southeastern Georgia, about a hundred miles southwest of Savannah, which has one of the best ones on our southeastern coast, was chosen. It is distant about 360 miles in an air line nearly due southeast from Guntersville.

The route from Guntersville ascends till it crosses Sand Mountain, crosses the Coosa River at Gadsden, and, passis through Cleburne County, Ala., enters Georgia in Haralse County, and continuing a general southeasterly course pa 14 miles south of Atlanta, 17 miles southwest of Mac thence very near the line of the existing Macon & Brunswick Railroad to Brunswick, on a line very nearly straight. The whole line is 412 miles long, and nowhere diverges more than five miles from an air line. It passes through four counties in Alabama and sixteen in Georgia, including some of the best parts of these States. The grades are:

On 90 miles......from 40 to 50 feet per mile.

The great coast forest of long-leaved pines, which extends from Virginia to Texas, in Georgia reaches back about 200 miles on the line of this road, and most of it is worth little for cultivation, but in parts supplies lumber and naval stores. The har-bor of Brunswick is said to be much better than those of Savannah and Charleston, but like the other superior harbors of Port Royal and Fernandina, it has never been able to divert any trade worth mentioning from those cities, which were built up originally because they were outlets for important river routes, while Brunswick and Port Royal were not, and have now the advantage of established trade and extended railroad systems. Brunswick has had two railroads complete since the war, both of which are hopelessly bankrupt, while neither has ever had a respectable traffic, though their wern termini are at the greatest cotton centers of Georgia— Georgia-Ma on and Albany.

The railroad is proposed as an outlet for the grain and other The railroad is proposed as an outlet for the grain and other produce exported from the Mississippi valley. To bring the produce to the railroad, it is proposed to improve the Tennessee River so as to secure three feet of water below Guntersville at the lowest stages, to do which it will be necessary to construct some short canals around shoals.

Any one acquainted with the export trade in grain and provisions knows that if this route is ever completed it will never get any of the export traffic worth mentioning. If useful at all, it will be for carrying grain and provisions to supply the local Southern demand. It would cost more to take grain from Cairo to Guntersville than to float it to New Orlean New Orleans has never been able to make any figure as a grain exporter. The railroad route from Guntersville to Bru is about as long as that from Buffalo to New York. There have long been railroad routes in operation from navigable waters on the Tennessee to the Atlantic and the Gulf, th less direct than the one proposed; but these railroads carry no northern products south for export, and of late years they have se railroads carry no received scarcely any traffic from Tennessee River boats. If the river were improved, probably these boats would be better able to compete with the railroads; but the route is simply an absurd one for export traffic.

Record of New Railroad Construction.

This number of the Railroad Gazette has information of

the laying of track on new railroads as follows:

Buffulo & Jamestown.—Completed by an extension westward miles to Jamestown, N. Y. Cincinnati, Wabash & Michigan,-Extended from Marion.

Ind., southward 12 miles to Fairmount.

Midland Pacific—Extended from Nebraska City south by east

down the Missouri River 22 miles to Brownsville, Neb.

Santa Cruz & Feiton.—This line, of 3-feet gauge from Santa
Cruz northward 6 miles to Feiton, Cal., is completed.

This is a total of 43 miles of new railroad, making 804 miles ompleted in the United States in 1875, against 1,101 miles reported for the same period in 1874, 2,778 in 1873, and 4,970 in

THE ART OF GETTING FREE PASSES has been developed in a peculiar manner, if we may believe the Detroit News, by the American consul at Suspension Bridge. Mr. Broughton, the new English manager of the Great Western Railway of Canada, is said to have refused him a pass. The *News* says: "That official thought this was a little rigorous, and resolved to imitate the good example set before him, and co tate the good example set before him, and commenced to do
the duties of his office in a rigorous manner. He accordingly
detained a train of cars laden with perishable goods for twentyfour hours, while he made a rigorous and detailed examination
of the contents of each car. This brought the Broughton to his senses so far as the consul was concerned, but it had no effect on his subsequent conduct." It is hard to believe this story, but if it is true, evidently there is a man in the diplomatic service of the nation who ought rather to be in the penitentiary, and it will be a shame if he is not dismissed.

The Structures for a City Railroad Authorised by the Rapid Transit Commissioners.

The following are the conclusions of the New York Rapid Transit Commissioners with regard to the kinds of structs which may be built in the city:

Upon motion of Mr. Brown, seconded by Mr. Delamater, it was, on the 4th day of October,

Resolved, That the Commissioners appointed by the Mayor of the city of New York, under and in compliance with the provisions of chapter 606, Laws of 1875, having by public notice

invited the submission of plans for the construction and operation of a railway or railways for the purpose provided for by said act, and having examined and considered the numerous plans and devices submitted to them, do hereby select and decide upon the plans, as follows, for the construction of such railway or railways, with the necessary turnouts, etc., upon the route or routes and in the locations determined by them by preambles and resolutions adopted on the 3d day of September, 1875:

1. The general plan or plans of the structure shall be of an

railway or railways, with the necessary turnouts, etc., upon the route or routes and in the locations determined by them by preambles and resolutions adopted on the 3d day of September, 1875:

1. The general plan or plans of the structure shall be of an elevated railway, with the track or tracks supported upon a row or rows of columns; the track or tracks shall be carried by longitudinal girders, resting either upon the tops of the columns or upon transverse girders supported by the columns.

Where the width of the street, between the curb-stones, does not exceed 36 feet, the plan of construction shall be as follows, as the company constructing the railway shall elect, i. e., either—First, with a row of columns on the line of each curb, and a superstructure carrying two tracks upon transverse girders spanning the street; or, Second, with a row of columns upon the line of each curb, and a superstructure carrying a single track over each row of columns; or, Third, with gothic transverse arches spanning the readway of the street from curb to curb and carrying longitudinal girders.

3. Where the width of the street, between the curb-stones, is more than 36 feet and less than 55 feet, the plan of construction shall be as follows, as the company constructing the railway shall elect, i. e., either: First, with a row of columns on the line of each curb, and a superstructure carrying two tracks on transverse girders spanning the street; and a superstructure carrying two tracks upon transverse girders spanning the portion of the roadway of the street; and a superstructure carrying two tracks upon transverse girders spanning the portion of the roadway of the street; and a superstructure carrying two tracks upon transverse girders spanning the portion of the roadway of the street, and a superstructure carrying two tracks upon transverse girders spanning the protion of the roadway of the street how one of columns—but this plan is not allowed along or over Second avenue, between East Honston street and East Twenty-third stre

and carrying longitudinal girders.

5. Whenever a column or row of columns is above authorized to be upon a line of curb, such column or row of columns shall be erected only within the line of curb-stones, and shall be there so situated and placed as not to obstruct vehicles or the ordinary traffic or travel in the roadway of the street.

6. There shall not be more than two rows of columns or more than two tracks in any one street or avenue or public place, except as hereinafter authorized.

7. No column shall be erected between any two tracks of street railroad now upon the surface of the roadway of the street—except in New Church street, as hereinbefore authorized.

horized.

8. Except where the width of a cross street, between the surbs thereof, is fifty feet or more, every cross street shall be be spanned by a single span, when and where the plan of construction used is one having a row of columns upon a curb inc.

struction used is one having a row of columns upon a curb line.

9. When and where the plan of construction used is one having two rows of columns in the roadway of the street, no column shall be erected within the curb lines of a cross street, elsewhere than upon the center line of such cross street, but may be there erected.

10. A single or double track may be placed between longitudinal girders and carried by iron floor-beams, the latter supported by the longitudinal girders.

11. Where columns are authorized to be in the roadway on each side of a street railroad track upon the surface of the roadway, the transverse distance between the columns shall be at least twenty-one feet in the clear.

12. The transverse diameter of a column authorized to be in the roadway of any street, shall not exceed fifteen inches at the base and thence for at least ten feet above the surface of the roadway; and the transverse diameter of a column authorized to be on the line of a curb, shall not exceed twenty-six inches at the base and thence for at least ten feet above the surface of the roadway.

the base and mence of a version of columns, above indicated, 13. The transverse diameter of columns, above indicated, os not include fenders; and adequate fenders shall be fitted ound the base of each column placed in the roadway, to prent the hubs of the wheels of passing vehicles from striking

the column.

14. Where authorized to be in the roadway, no column shall be nearer than five feet to the house line of the cross street, but every column erected in the roadway of the street shall be set back at least five feet from that line.

15. The longitudinal distance between the columns, when both rows are in the roadway shall not be the columns.

back at least five feet from that line.

15. The longitudinal distance between the columns, when both rows are in the roadway, shall not be less than 35 feet.

16. The longitudinal distance between the columns on the curb shall be at least 25 feet.

17. On curves of 300 feet radius or less the longitudinal distance between the columns in the roadway may be reduced to not less than 25 feet.

18. No part of the girders or superstructure shall be less than 4 feet above the level of the street, except on a summit, where, when necessary on account of grade, the height of the lowest part of the girders, above the roadway of the street, may be reduced to 12 feet.

19. The girders may be aither above.

19. The girders may be either plate or lattice, or any suitable form of truss, and shall not be continuous over more than two

form of truss, and shall not be continuous over more than two spans.

20. Upon every track there shall be two continuous longitudinal stringers, of sufficient size, of the best quality and kind of timber suitable for the purpose. The joints of such longitudinal stringers shall be searfed and bolted, and such stringers shall be securely fastened to every support on which they rest, so as to tie the structure firmly together and give it stiffness in a longitudinal direction. This requirement may be fulfilled either by longitudinal stringers under the rails, or by safety-guards of timber, if made to comply with the above conditions.

21. The material used for that part of the structure above the ground, shall be wrought-iron or steel—except that the connections between the posts which form a cluster column may be of cast-iron—and except the rails, which shall be of the best quality and kind of selected timber. The safety-guards, if of wood, shall be of the best quality and kind of timber. Wood shall not be placed in any position where it may not be readily renewed without interrupting the travel on the road.

22. The wrought-iron shall be of the following general character: Tough, highly fibrous, and of a quality which shall be in every respect equal to that used in first-class American iron railway bridges.

23. No part of the structure shall be subjected to a greater strain of tension or compression than 9,000 pounds to the square inch; and no part shall be subjected to a greater shearing strain than 7,500 pounds to the square inch, and the structure shall not be proportioned for a less moving load than 1,200 pounds per lineal foot for each track.

24. The maximum deflection of any girder under the passage of a train shall never exceed 1-1500 of its length.

25. The plates composing the longitudinal parts of a column or girder shall be in single pieces, except in the case of a girder of more than 40 feet in length.

26. All rivets shall be of double-refined iron, which shall have an ultimate tensile strength of 60,000 pounds to the square inch. The rivet holes shall enter the holes without drifting or forcing, and shall fill the holes.

27. All parts which make up the section of a column, except where cluster columns are used, shall be of equal thickness and of uniform quality.

28. The strength of the columns shall be proportioned by

27. An parts which make up the section of a column, except where cluster columns are used, shall be of equal thickness and of uniform quality.

28. The strength of the columns shall be proportioned by Gordon's formula for the ratio of the diameter to the length, with five as a factor of safety.

29. The different parts of the structure and their connections shall be properly proportioned to resist all of the momentum of the train which can, by the application of brakes, or in any other manner, be imparted to the structure.

30. The foundations for the columns shall consist of brickwork, stonework or concrete.

30. The foundations for the columns shall consist of brickwork, stonework or concrete.

31. The masonry for foundations, where the span is 50 feet, shall measure at least 4½ feet square upon the top, at least six feet square at the bottom, shall be at least four feet in depth, and shall rest upon two thick blocks of granite or other flagging, three feet by six—so as to make a base for the masonry not less than six feet square. When the span is smore than fifty feet the dimensions of the foundations shall be larger, and when the span is less than fifty feet, the dimensions of the foundations must, in every case, have as much stability relative to load as is above required.

32. The earth is to be prepared for this masonry by being made firm and solid, and covered with a bed of good hydraulic mortar.

made firm and solid, and covered with a bed of good hydraulic mortar.

33. Every column or post shall be secured to the masonry by means of a heavy plate of cast iron, so proportioned as to distribute the weight which comes upon it uniformly over the foundation; this plate shall be fastened by sufficiently strong wrought-iron bolts passing through the masonry—the bolts having heads which shall be upset and not welded, and having washers of sufficient size beneath the stones above-named and immersed in the bottom bed of hydraulic mortar. The castiron plate, its connections with the column, the wrought-iron bolts, and their heads and washers shall possess sufficient strength to receive and resist, equally well with the column, all strains that can come upon the latter. The cast iron shall be of the best quality suitable for bed plates which are to be covered under ground, and all castings shall be sound and fair.

34. All the iron work beneath the surface of the street shall be covered with hydraulic mortar or in some way protected from rust.

from rust

or in some way protected from rust.

35. Good hydraulic cement shall be used in the masonry, and Portland cement of the first quality shall be used in case the foundations are constructed of concrete. If bricks are used they shall be hard burnt and of the best quality.

36. The foundations, where necessary, shall be increased in area so that in no case shall a weight greater than 2,000 lbs. to the square foot come upon any base.

37. All wrought-iron work shall receive one coat of metallic paint and oil before leaving the shop, and immediately after erection shall receive at least two coats of good paint. All parts of the structure shall, where practicable, be made accessible for the purpose of painting, and shall be well protected from rust where not accessible.

36. Efficient safety guards shall be provided, so that, in case of accident, the cars shall be effectually prevented from leaving the structure.

of accident, the case shall be able to the structure.

39. The best form of continuous brakes, so arranged as to be under the control of the engineer, shall be applied to all trains, and to every car in each train.

40. Every switch shall be of such design that, if left open or placed wrong, it cannot break the main track or offer any impediment which may cause the derailment of a passing

impediment which may cause the derailment or a passing train.

41. Rails shall be of steel, not less in weight than fifty pounds per lineal yard; they shall be laid and fastened in the best manner as regards security, level and parallelism, and great attention must be given to the rail joints.

42. The railway must be equipped with the most approved system of signals to guard against accidents; and there shall be the necessary telegraph and signal devices.

43. Stations shall be so arranged as to be convenient of access from the street.

44. There shall be no steps (other than those leading from the street), sills, or any other projections about stations, over which persons can trip or stumble.

45. The platforms of stations shall be on a level with the platform of the cars; and nothing shall intervene between a platform and the cars that must be stepped over to enter a car.

46. Each station shall have ample space, under cover, to

46. Each status must associate accommodate the passengers.

47. Where two rows of columns are authorized and either row is placed in the roadway of the street, the columns shall be erected in pairs, and both columns of each pair shall stand in line upon a line at right angles to the direction of the length

the street.

48. The stairs and all parts of the stations, except the platrm, doors, windows, and inside sheathing, and except the
read of the stairs, shall be of iron.

49. All station platforms and stairs shall be protected by a
abstantial iron railing.

50. Every axle shall be of steel of a quality best suited to the
urpose, and shall be subjected to such tests and safeguards,
and be of such dimensions as are usual in first-class railway
practice.

practice.

51. Every wheel, whether of a car, locomotive or tender, shall have a tire of steel of the best quality and form suited to the purpose, and shall be turned on the tread. The wheels shall be fitted with the best known means of deadening noise and preventing jars.

52. Authority is given for construction of such supports, turnouts, switches, sidings, connections, landing-places, stations, buildings, platforms, stairways, elevators, telegraph and signal devices, and such other requisite appliances, upon the route or routes, and in the locations determined by the commissioners, as shall be proper for the purpose of rapid transit railways, and se shall be necessary to meet the requirements of the traveling public.

53. All car axles shall be provided with the best devices used in railway practice to catch the axles and prevent them from getting adrift in case of fracture.

54. The structure shall present a substantial and tasteful appearance.

pearance.

55. On River street westerly from Fourth avenue, and on Eighth avenue northerly from One Hundred and Fifty-fifth street, the railway may be constructed as a surface railroad upon the grade of the street; it shall be a double-track road.

56. All of the materials used in the construction of the work shall be of the best quality for the purposes for which they are to be applied; and the work shall be executed in the best style of the arts, and in a workmanlike manner.

57. It is the intention and spirit of these specifications to provide in every respect for a first-class structure, and no omissions of specific requirements to this effect, if any exast, shall in any case be construed in any way to invalidate this general requirements.

quirement.

58. These specifications shall be incorporated into and shall constitute an essential part of every contract made by the company for material or construction.

General Time Convention.

SECRETARY'S OFFICE, PHILADELPHIA, Sept. 15, 1875.

SECRETARY'S OFFICE, I'HILADELPHIA, SCP., 10, 1016.
In accordance with a resolution passed at the last meeting ne regular semi-annual meeting of the General Time Convenion will be held at the Grand Pacific Hotel, Chicago, of Vednesday, Oct. 13, 1875, at 10 A. M.

W. F. ALLEN, Secretary.

Notice has been received that the following named roads will be represented at the Convention:

Notice has been received that the following named road be represented at the Convention:

Atchison, Topeka & Santa Fe R. R. Atlantic & Great Western R. R. Baltimore & Ohio R. R. Boston & Albany R. R. Buffalo, New York & Philadelphia R. R. Buffalo, New York & Philadelphia R. R. Buffalo, New York & Philadelphia R. R. Canada Southern R. W. Cincinnati, Lafayette & Chicago R. R. Cleveland, Columbus, Cincinnati & Indianapolis R. R. Cheago, Burlington & Quincy R. R. Chicago, Burlington & Quincy R. R. Chicago, Milwaukee & St. Paul R. W. Chicago, Milwaukee & St. Paul R. W. Cincinnati, Sandusky & Cleveland R. R. Illinois Central R. R. Indianapolis, Bloomington & Western R. R. Indianapolis, Bloomington & Western R. R. Indianapolis & St. Louis R. R. Kansas City, St. Joseph & Council Bluffs R. R. Lake Shore & Michigan Southern R. R. Louisville, Cincinnati & Lexington R. R. Louisville, Cincinnati & Lexington R. R. Louisville, Cincinnati & Lexington R. R. Louisville, Paducah & Southwestern R. R. Memphis & Charleston R. R. Mishouri Pacific R. R. New York Central R. R. New York Central R. R. New York Central & Hudson River R. R. New York Central & R. R. Paris & Danville R. R. Pennsylvania R. R. Pennsylvania R. R.

New Orleans & Andreas A. New York Central & Hudson River R. R. Northern Central & R. Paris & Danville R. R. Pennsylvania R. R. Pennsylvania Co. Petersburg R. R. Piedmont Air Line R. R. Piedmont Air Line R. R. Piedmont Air Line R. R. Pietmont Air Line R. R. Pietmont Air Line R. R. St. Louis, Alton & Terre Haute R. R. St. Louis, Iron Mountain & Southern R. R. St. Louis, Kansas City & Northern R. W. St. Louis, Vandalia, Terre Haute & Indianapolis R. R. Toledo, Peoria & Warsaw R. R. Toledo, Wabash & Western R. W. Several other railroads from whom no returns have be

Several other railroads from whom no returns have been received up to the time of going to press will doubtless be represented.—Official Railway Guide.

General Railroad News.

ELECTIONS AND APPOINTMENTS.

Carbondale & Shawneetown.—At the recent annual meeting the following officers were elected to serve for the ensuing year: Leopold Burkhardt, President, Cincinnati, O.; Bena Gates, Vice-President, Marietta, O.; W. B. Stephenson, Secretary, Cincinnati, O.; D. J. Fallis, Treasurer, Cincinnati, O.; E. C. Dawes, General Manager, Cincinnati, O.; R. J. Cavelt, Superintendent, Carbondale, Ill.; J. E. McGettigan, Auditor, General Freight and Ticket Agent, Cincinnati, O. General office of the company, Cincinnati, O.

Southern Central.—At the annual meeting in Auburn, N. Y., Sept. 1, the following directors were unanimously elected: Elmore P. Ross, Thomas C. Platt, William C. Barber, Chaucey L. Rich, Clinton T. Backus, Charles Cady, Robert A. Packer, John N. Knapp, Royal W. Clinton, Charles N. Ross, Dexter B. Marsh, James A. Timpson, James G. Knapp. At a subsequent meeting of the directors, E. P. Ross, Auburn, was chosen P. eddent; Thomas C. Platt, Owego, Vice-President; J. N. Knapp, Secretary; C. L. Rich, Treasurer.

Michigan Air Line.—The officers of this company, now in Procussion of the vend known for some directors to the control of the condensation of the condensation.

Secretary; C. L. Rich, Treasurer.

Michigan Air Line.—The officers of this company, now in possession of the road known for some time past as the St. Clair & Chicago Air Line, are as follows: J. B. Eaton, President; E. Bancker, Secretary and Attorney; M. A. McNaughton, Treasurer, Jackson, Mich.; Wm. Young, Manager, Valparaiso, Ind. General offices, Jackson, Mich.

Northern Pacific.—The purchasing bondholders met in New York, Sept. 29, and organized the new company by the election of the following directors: Edwin M. Lewis, John N. Hutchisson, Charles B. Wright, Charlemagne Tower, J. Fraley Smith, Philadelphia; J. K. Moorhead, George W. Cass, Joseph Diworth, Pittsburgh; John M. Dennison, Baltimore; Jöhnston Livingston, New York; B. P. Cheney, George Stark, Boston: Frederick Billings, Woodstock, Vt. The board subsequently elected Charles B. Wright President; George Stark, Vieteresident; Samuel Wilkeson, Secretary; George E. Beebe, Treasurer.

Montolair.—The bondholders, for whose account the road was bought, have organized a new company by the election of the following directors: Smith Ely, Jr., C. L. Perkins, J. de Neufville, Jacob F. Randolph, R. B. Ferris, M. A. Myers, J. Wyman Jones. The board elected Jacob F. Randolph Presiden, and Wm. O. McDowell Secretary.

Panama.—Mr. Philo C. Calhoun has been elected a director, in place of Mr. Emmett resigned.

Canada Central.—At the annual meeting in Ottawa, Can. Sept. 22, the following directors were chosen: H. S. Foster, J. Smith, James Skead, J. Ashworth, H. O. Noel, E. McGillivay, W. Moffat, J. O'Halloran, N. Petts, H. L. Redhead. Mr. H. I. Redhead was chosen President.

Midland Pacific.—Mr. E. Smith has been appointed General Freight and Ticket Agent. He has been for several years agen for the Chicago, Burlington & Quincy at Nebraska City.

Chesapeake & Ohio.—Mr. Conway R. Howard, who was an engineer on this road during its construction, is now General Passenger and Ticket Agent.

Sheboygan & Fond du Lac.—Mr. M. Ewen has been appointed Train Dispatcher; car mileage reports will be made by and to him.

Keithsburg & Fastern.—At the annual meeting in Refiburg, Ill., recently, T. B. Calcen, George & calcn and J. E. Montelair. -The bondholders, for whose

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Hornish were chosen directors for three years. The board then elected officers as follows for the ensuing year: J. K. Hornish, President; T. B. Cabeen, Vice-President; J. B. Holland, Secretary.

wynesboro & Washington.—The officers of this company are as follows: President, J. G. Ritchie, Waynesburg, Pa.; directors, Simon Rinehart, Henry Sayres, I. T. Hook, A. A. Purman, W. C. Condit, Henry Swart, Jacob Swart, Ephraim Conger, James Dunn, Thomas James, John Munel; Chief Engineer, O Barrett, Jr., Allegheny, Pa.

Syracuse, Geneva & Corning.—This new company has been organized by the election of the following directors, D. A. Ogden, Penn Yan, N. Y.; Patrick Lynch, William T. Hamilton, F. N. Hiscock, Syracuse, N. Y.; C. C. B. Walker, S. T. Hayt, Alexander Olcott, A. Gorton, Corning, N. Y.; George J. Magce, Daniel Beach, John Long, Watkins, N. Y.; Edgar Munson, Williamsport, Pa.; Alexander G. Cattell, Camden, N. J.

TRAFFIC AND EARNINGS.

	9	C1 1	35	
Plane.	and	(+rain	Movement	

19,422 Dec. 26,764 22.4 37,973 Dec. 28,234 20.5 04,502 Inc. 6,581 3.2
04,502 Inc., 6,581 3.2
08,981 Dec., 51,321 2.6
45,132 Inc239,071 11.7
64,828 Dec 817,312 41.6
06,222 Inc., 180,319 4.3
63,953 Inc.1.120,499 43.7
38,461 Dec 41,564 1.1
e ports, 371/2 per cent. was

Totals	2,546,953	1,842,955	Inc 703,998	38.2
CornOats	920,847	120,025	Inc800,822	667.4
	110,175	87,090	Inc 23,085	27.7
	516,812	6,469	Inc510,343	7,889.1
Flour, barrels		198,450	Dec., 65,432	33.0
Wheat, bushels		736,346	Dec., 345,808	47.0

In the totals flour is reduced to wheat. The extraordinary increases in rye and corn, as well as the large decrease in flour and wheat, are notable.

The Buffalo Commercial Advertiser reports grain receipts at that port for the nine months ending Sept. 30 as follows:

By lake By rail		Grain. 35,863,867 13,811,130	Flour. 951,708 1,354,592	Grain. 42,172,731 20,940,129
Totals	,663,795	49,674,997	2,306,300	63,112,860
There is a decrease 27.1 per cent. in grain grain 27.8 per cen	n. Of th	ne flour 58.9	per cent., a	nd of the

1875.	1874.	Inc. or Dec.	P.c.
By canal, bushels23,760,272	31,027,178	Dec. 7,266,906	23.4
By rail, "10,914,270	8,889,680	Inc2,024,590	22.8
			-
Totals 34 674 549	39 916 858	Dec. 5 242 316	19.1

The rail shipments still continue to show an increase, in spite of low canal rates. Rail shipments were 31.5 per cent. of the whole in 1875 and 22.3 per cent. in 1874.

Chicago grain receipts and shipments for the week ending 0ct. 2, were, in bushels:

	1875.	1874.	Inc. or Dec. Dec. 267,168 Inc. 611,915	P. c.
Receipts	2,415,157	2,682,325	Dec. 267,168	10.0
Shipments	2,044.835	1,432,920	Inc. 611,915	42.7
The wormler through w		in her mail	from Chione	no 40

The regular through rate for grain by rail from Chicago to New York has long been 30 cents per hundred pounds—18 cents a bushel for wheat and 16.8 cents for corn; and, though the lake rate is but 2½ cents or less per bushel for wheat to Buffalo, and the canal rate from Buffalo to New York 7½ cents or less, the railroads carry a larger proportion than almost ever before.

Coal Movement.

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meeting ensuing Beman

, Secre-i, O.; E. Cavett, Auditor, General

n, N. Y., elected: hauncey Packer, exter H.

Knapp,

t in New

Hutchin-y Smith, eph Dil-Johnston Boston

rk, Vice-L. Beebe,

the road lection of tins, J. de rs, J. Wy-President,

director,

wa, Can, Foster, J. Gillivray, Mr. H. L.

d General ears agent ity. ho was an w General

in Keibs and J. E.

Coal tonnages for the week ending Sept. 25, are reported

	1875.	1874.	Inc. or Dec.	P. c.
Anthracite	548,741	453,196	Inc. 95,545	21.1
Semi-bituminous, Broad Top and				
Clearfield	25,059			
Cumberland	57,062			
Bituminous, Barclay	7,995	*****	********	
" West'n Pennsylvania,	20,855	*****	*****	
" West Virginia	4,692		********	****
Pennsylvania & Westmoreland	-,			
gas coal	17,836			
Coke, Western Pennsylvania	15,282			****
The total production of Cum	baulam.	l seel m	mantal fram	. 42

period from Jan. 1 to Sept. 25, is as follows: 1875, 1,705,446 1874, 1,764,942; decrease, 59,496 tons, or 3.37 per cent. Erie Canal Traffic.

Railroad Forsing

Business at Buffalo from the oper follows:	ning up to	Oct. 1, wa	s as
Receipts of tolls\$547,523 09 Number of boats cleared 4,466	1874. \$937,496 84 5,804	Decrease. \$389,973 75 1,338	P.c. 41.5 23.1
The canal opened for traffic May	18, 1875, and	May 5, 187	4.

Earnings for various lowing companies:	periods b	ave been re	eporte	l by the	fol-
Nine months ending Sept. 8	1875.	1874	Inc	or Dec.	P. c.
St. Louis, Kansas City &	1010.	1012	Ide.	or Dec.	r. c.
Northern	1,880,843	\$1,805,778	Inc.	\$75,065	4.2
Ht. Louis, Iron Mt. & So	2,488,694	2,199,204	Inc	289,490	13.2
Month of September: %. Louis, Kansas City & Northern %. Louis, Iron Mt. & So	\$246,624 342,800	\$249,733 292,216	Dec Inc	\$3,109 50,584	1.2 17.3
Second week in September: Cairo & St. Louis	\$6,780			•••••	
& Western	33,127	\$33,811	Dec	\$684	2.0
	72,098	64,599	Inc	7,499	11.6
Missouri, Kansas & Toxas. Third week in September:	69,805	76,164	Dec	6,359	8.3
M. Louis, Iron Mt. & So.	\$90.900	\$65.K94	Inc.	\$24,666	37.7

PERSONAL.

The current number of Harper's Weekly has the following sersonal: "In one of the bright New York letters to the Boston Seening Gazette mention is made of Mr. A. R. Macdonough, Secretary of the Eric Railway Company, as 'the lawyer critic, to perfect as a scholar and so modest that he has often been compared to Thackeray's Warrington.' He is a son of the late distinguished Commodore Macdonough, President of the St. Sicholas Society, Secretary of the Century Club, and perhaps

i's most beloved member. He was the classmate of Bristed, and held by the latter to be the first lay scholar in America—a lawyer by profession, a poet and critic. He writes the best reviews in serial papers and magazines, and translated Papillon's remarkable papers for the Popular Science Monthly."

—Dr. W. J. Hawkins, the retiring President of the Raleigh & Gaston and the Raleigh & Augusta Air Line companies, has been presented by the employes of those companies with a silver service costing \$650.

—Mr. George Macnoe, who recently resigned his position as Paymaster of the Buffalo, New York & Philadelphia road, was presented with a valuable silver set by the officers and em-ployes of the road in Buffalo, Sept. 25.

prosented with a valuable silver set by the officers and employes of the road in Buffalo, Sept. 25.

—Mr. T. B. Sargent, having resigned his position as Superintendent of the Bay City and Mackinaw Divisions of the Michigan Central road, was met at the depot in Detroit, Oct. 1, by a committee of the employes of those divisions and presented with a valuable silver service of 18 pieces, as a testimonial of their esteem for him and their regret at his departure.

—Mr. Charles F. Hatch, formerly well known in connection with the Lake Shore & Michigan Southern road, and for several years past General Manager of the Eastern Railroad, for part of the time of the Maine Central also, has resigned his position. There has lately been some opposition to Mr. Hatch among the stockholders, who have received no dividends for several years and who are inclined to blame the management without reason. Mr. Hatch will reside in New York for a time.

—At the annual meeting of the Louisville & Nashville Com-

Mr. Hatch will reside in New York for a time.

— At the annual meeting of the Louisville & Nashville Company this week, Mr. Thomas J. Martin retired from the presidency. It was reported that he will probably be succeeded by Mr. E. D. Standiford, now Vice-President.

—Gen. Ira Spaulding, a well-known engineer, diea suddenly of heart disease Oct. 2, while on his way eastward from Harrisburg, Pa., in a train on the Reading road. He was born in Oneida County, N. Y., in 1818 and began his engineering work on the Syracuse & Utica road in 1839. He was subsequently on the Eric and then on the Great Western of Canada. He served through the war in an engineer regiment, leaving it as Colonel, and was made Chief Engineer of the Utica, Chenango & Susquehanna Valley road. He has also been connected recently with the Costa Rica Railroad and the Northern Pacific.

THE SCRAP HEAP.

Railroad Manufactures.

The Pennsylvania Steel Company's rail mill at Baldwin, Pa., is running full double turn and is now making rails for the Central Pacific. The company has also on hand orders for the Pennsylvania Railroad, the Philadelphia, Wilmington & Baltimore, the Central of New Jersey, the Philadelphia & Erie, the Northern Central, the Atlantic, Mississippi & Ohio, the Catasauqua & Fogelswille, and the Philadelphia & Reading, besides some for street rails.

It is said that the Woodstock Iron Company, of Georgia, has begun the manufacture of spiegeleisen from ores found upon its property. If the company is successful this will be the first spiegel made from native ores, that now manufactured in this country being from Spanish ore.

The Jagger Iron Company, of Albany, N. Y., has failed, the causes being the depreciation of the value of iron, of which a large stock was on hand, and the losses occasioned by long contracts for ore at a high price. The debts of the concern amount to about \$225,000, of which \$50,000 is secured by a first mortgage to the National Savings Bank of Albany, and \$88,000 by a second mortgage to the Pennsylvania Coal Company.

The Barney & Smith Manufacturing Company.

An officer of this company informs us that they have had no cause to complain of dull times, the works having had all they could do through the Spring and Summer. They have just completed 500 grain cars for the St. Louis, Kansas City & Northern, are now building a lot of stock cars for the Chicago, Milwaukee & 8t. Paul, and have orders for 100 cars for the Boston & New York Air Line. They have contracts to equip four narrow-gauge roads with passenger and freight cars. They are building six sleeping coaches for the Wagner Company, to be used in their new line over the Michigan Central. The contract for these sleepers was for a 60 days' delivery. They are first-class cars in every respect.

British Rail Exports.

British Rail Exports.

The exports of railroad iron of all kinds reported by the Board

of Trade were, in tons: Month of August: Total To United States	1875. 61,078 1,341	1874. 71,032 64	Inc.	9,954 1,277	P. c. 14.0 2.000.0
Jan 1 to Aug. 31:					
To United States		576,196 11,106	Dec	-,	32.0 58.3

The average price reported for the exports to this country is £201/4 in August, 1874, and a trifle more than £9 this year; and for the eight months, £13 2s. last year, and £9 12s. this. This indicates that the importations were chiefly steel last year and chiefly iron this.

OLD AND NEW ROADS.

St. Paul & Pacific.

St. Paul & Pacific.

The plan of an agreement between the bondholders committee and the company was to be submitted to the bondholders for their action at a meeting in Amsterdam, Oct. 4.

This agreement between the company and the bondholders' committee is very voluminous; the substance of it is a follows:

There are to be executed a mortgage on the branch line (not including the lands) for \$1,368,000 7 per cent. gold bonds, having 30 years to run; a mortgage on the main line for \$20,000 for per cent. currency bonds, the holders of which are to accept in full payment of interest such pro rate share of the net earnings as may remain after paying the interest on the first mortgage; provided that if after ten years they do not receive 3½ ber cent annually, the principal shall be held to be due. Preferred stock shall also be issued on both the main and branch lines, and land scrip, which shall bear no interest, but to the payment of which all the proceeds of land sales shall be applied.

Of the \$1,368,000 Branch Line bonds, \$486,000 shall be reserved to retire the existing bonds on said line and as much as necessary shall be used to exchange for 50 per cent. of the \$1,200,000 issue; the rest may be sold to pay for improvements and new equipments, payment of debts and expenses of the bondholders' committee. The other 50 per cent. of the \$1,200,000 issue shall be paid in land scrip. The holders of the \$2,2800,000 issue of Branch Line bonds are to receive one-half their face in land scrip and one-half in preferred stock. Overdue coupons on both issnes to be paid either in preferred stock at par, or one-half in preferred stock at par and one-half in preferred stock at par, or one-half in preferred stock at par, or one-half in preferred stock at par and one-half in fections of the \$4,000,000 issue of 1874 and the \$6,000,000 issue of 1868 shall receive 50 per cent. in land scrip and 25 per cent. in preferred stock. The holders of the \$1,000,000 issue of 1870 shall receive 50 per cent. in land scrip, 25 per cent. in prefe

coupons of all these issues to be paid 50 per cent. in land scrip and 50 per cent. either in second preferred or common stock. The common stock to be limited to \$5,000,000 for the Main Line and \$1,500,000 for the Branch Line, and in case the new issue is not enough to carry out the agreement, the holders of the present stock must contribute enough to make up the amount required.

The company is to establish transfer offices in New York and Amsterdam. The net earnings to be divided semi-annually, except that 10 per cent. may be retained as a fund for improvements in road and equipment. Five trustees to be appointed to carry out the agreement, who are to be George 8. Coe, John S. Barnes, Edwin C. Litchfield and two others to be named by the committee. The old bonds to be deposited with the United States Trust Company, of New York, the Union Bank, of London, or the Associatic Cassa, of Amsterdam, subject to the order of the trustees, who shall have authority to use them to foreclose in case it shall be necessary to carry out the agreement. The agreement to be finally binding if the holders of 90 per cent. of the bonds shall assent. In case, however, that 90 per cent of the bonds shall assent. In case, however, that 90 per cent of the bonds do not agree within one year, either party may resind the agreement.

The holders of the new bonds are to have one vote for each \$100 of their holdings; holders of land scrip to have one vote for each \$100 on all questions affecting the menagement of the land grant.

The rest of the long document is taken up with minor details respecting the exchange of bonds, etc.

Meetings.

Meetings.

The following companies will hold their annual meetings at the times and places given:
Lonisville & Nashville, in Louisville, Ky., Oct. 6.

Western Maryland, at the office, corner Eutaw and Fayette streets, Baltimore, Oct. 20, at 12 noon.

Southern, of Long Island, at the office, No. 11 Mercer street, New York, Oct. 16, at 12 noon.

New York, Oct. 16, at 12 noon.

Toledo, Wabash & Western.

An informal meeting of stockholders to decide upon action to be taken at the annual meeting was held in New York, Sept. 30. Stockholders representing 35,950 shares were present, and resolutions were adopted appointing a coumittee of five to take charge of the stockholders interests, and to take such measures as may be necessary to resist the threatened fore-closure of the second consolidated mortgage. Stockholders were urged to send their proxies to the members of the committee, and it was resolved to pay an assessment of 10 cents per share to meet the necessary expenses. The committee consists of O. D. Ashley, A. S. Peabody, H. S. Henry, J. A. Jameson and E. A. Corey.

Dividends.

Dividends have been declared by the following companies:

Pittsburgh, Fort Wayne & Chicago, 3¾ per cent., quarterly,
on the special guaranteed stock, payable Oct. 1. Also 1¾ per
cent., quarterly, on the regular guaranteed stock, payable
Oct. 5.

Philadelphia & Reading, 2¼ per cent., quarterly, payable
Oct. 90.

Oct. 29.

Panama, 3 per cent., quarterly, payable Oct. 15.
Lebigh Valley, 2½ per cent., quarterly, payable Oct. 15.
Lebigh Valley, 2½ per cent., quarterly, payable Oct. 15.
Ogdensburg & Lake Champlain, 4 per cent., semi-annual, on
the preferred stock, payable Oct. 1.
Sioux City & Pacific, 3½ per cent., semi-annual, on the preferred stock, payable Oct. 1.
Vermont & Massachusetts (Fitchburg Company lessee), 2
per cent., semi-annual, payable Oct. 7.
New York, Providence & Boston, 2½ per cent., quarterly,
payable Oct. 11.

payable Oct. 11.

Eastern.
At the directors' meeting last week the committee appointed to prepare a statement of the company's affairs presented its report. The statement was discussed and was to be given to the public this week. Mr. Charles F. Hatch presented his resignation as General Manager, which was accepted and the office abolished. It was decided to discontinue the Washington street office in Boston, to do away with free passes and with the system of rebates on freight.

It is understood that the company and the Boston & Maine also will withdraw from the competition for Western freight to and from Boston, in connection with the Grand Trunk.

Oincinnati, Wabash & Michigan.

The extension of this road from last year's terminus at Marion, Ind., southward to Anderson, is now completed as far as Fairmount, 12 miles from Marion and 93 miles from the northern end of the road at Goshen. Trains are running to Fairmount regularly.

New York & Canada.

Track laying is in progress all along the unfinished portions of the line and is so nearly completed that the Managers expect to run a train through from White Hall to Bouse's Point about Oct. 20. Much of the ballasting and unfinished work is yet to be done, however, and it is not likely that regular through trains will begin to run much before Jan. 1, 1876.

Midland Pacific.

In addition to the 83 miles of road from Nebraska City, Neb., westward to Seward, this company now has completed and in operation a line from Nebraska City south by east, following the general course of the Missouri and on its western bank, to Brownville, 22 miles. Work is in progress on the extension of this line from Brownville nearly due south about 23 miles to the Atchison & Nebraska at Salem.

annibal & St. Joseph.

Two clerks in the employ of the company have been arrested for defrauding it of a considerable amount in a way which is thus described by the Hannibal Courier: "Some time ago General Ticket Agent Penfield, of the Hannibal & St. Joe, noticed that among the tickets returned to his office were quite a number with a small bit torn out of the end or side. The frequency of this peculiarity among the tickets returned by conductors aroused his suspicions, and Detective McGraw, of Quincy, was employed to work the case and see what there was in it. The detective called to his aid Marshal Kelly, of this city, who went to work carefully and quietly, and on Saturday their joint labors resulted in the capture of the guilty parties and exposing the whole plan.

"The guilty parties are H. Livingston, clerk in the office of the General Ticket Agent, and Wm. E. Davis, a clerk in one of the railroad offices in Kansas City, but for several years a clerk at the Hannibal & St. Joe headquarters in this city. Livingston had the handling of the tickets which came into the office, and whenever he found one which the conductor had punched near the edge he would lay it to one side. At a convenient time the tickets so selected were neatly and delicately torn so as to deface the punch mark and then forwarded to Davis at Kansas City, to be disposed of for the benefit of the firm."

New York, Boston & Montreal.

New York, Boston & Montreal.

The Farmers' Loston & Rontreal.

The Farmers' Loan & Trust Company, trustee, has begun suit to forcelose a first mortgage upon the New York & Boston road, which was executed in 1870, the company having been since merged in the New York, Boston & Montreal by consolidation. The mortgage was for \$2,500,000, and bonds to the amount of \$1,300,000 were issued, besides \$750,000 more which are in dispute. The application is opposed by the trustees under the New York, Boston & Montreal mortgages,

who claim that the old bondholders, or a majority of them, agreed to give up their bonds for those issued under the consolidated mortgages; that at the time of consolidation the New York & Boston road was in an unfinished state, right of way not paid for and the station houses not built. The trustees allege that the consolidated company expended \$643,000 for right of way and road-bed and \$267,009 for superstructure. As to the right of way, they claim a prior lien and for the other expenditures an equal hen with the old mortgage. The section of 10 miles from High Bridge, New York, north to North Yonkers, which has been leased from the Receiver by Mr. John Q. Hoyt, was formally opened by an excursion Oct. 4. Regular trains will begin to run Oct. 11.

Springfield, Jackson & Pomeroy.

Springfield, Jackson & Pomeroy.

This company advertises for proposals for the grading, masonry, brilges, ties, iron, tracklaying and ballasting of its road from Springfield in Clark County, Onio, to Jackson in Jackson County. Profiles, specifications, etc., can be seen and all information obtained from the Chief Engineer, W. C. Agnew, at his office in Waverly, Clark County, Onio. Bids will be received up to Oct. 21 by the President, James Emmitt, also at Waverly, Clark County, Ohio.

Cincinnati, Rockport & Southwestern.

This company has finally secured the money necessary to complete the road from the present terminus at Ferdinand, Ind., to Jasper. The contract for the grading, ties and tracklaying has been let to Douglas & Doty, of Columbus, O.

Baltimore & Ohio.

Baltimore & Ohio.

The improvements at the wharves at Locust Point, Baltimore, are being pushed forward, and the new coffee store-house is nearly completed.

There has been a general reduction in the working force all along the line. About 400 men have been discharged from the Mount Clare shops, and the number of employes on the road and at the other snops has been reduced about one-fifth.

The arguments in the suit before the United States District Court involving the title to the Harper's Ferry property have been closed. The Court reserved its decision, which will probably be announced at the next term, in November.

New Mail Routes.

An extension of mail service, to begin Oct. 15, has been ordered over the new section of the Raleigh & Augusta Air Line, from Sanford, N. C., to Cameron, 13 miles.

Extension of mail service has been ordered over the Cincinnati, Wabash & Michigan road, from Marion, Ind., to Fairmount, 12 miles, to begin Oct. 6.

Chesapeake & Ohio.

Ohesapeake & Ohio.

Bills of foreclosure of the first mortgage have been filed simultaneously in the United States Circuit Courts for Virginia and West Virginia. The court at Richmond issued the usual preliminary niquection against interference with the mortgaged premises, and also a preliminary order granting application for a receiver.

premises, and also a premises, a receiver.

It is reported that this suit for foreclosure has been begun it is reported that this suit for foreclosure has been begun it is reported that this suit for foreclosure has been begun it is reported by which all is reported by which all is suited in which all is which all is suited by the suite It is reported that this suit for foreclosure has been begun under an agreement, by which the property will be bought in by the bondholders and a new company organized, in which all the interests concerned will be represented. It is hoped that the new corporation will be strong enough to to secure the im-mediate completion of the rail connections with Louisville and Cincinnati. It has been apparent for some time, t. at the fund-ing arrangement could not be carried out, and that a foreclosure and reorganization would be necessary.

Ohio & Mississippi.

Onto & Missisppi.

Mr. Allan Campbell, surviving trustee, gives notice that a meeting of the holders of the first consolidated mortgage bonds will be held at his office, No. 71 Broadway, New York, Jan. 7, 1876, at 12 noon, for the purpose of electing a trustee under the mortgage in place of Samuel U. F. Odell, deceased. At the same time and place a meeting of holders of the second consolidated mortgage bonds to choose a trustee under that mortgage, also, in place of Mr. Odell.

Ohicago, Milwaukee & St. Paul.

The Farmers' Loan & Trust Company, trustee, will receive proposals at its office in New York, up to noon of Oct. 25, for the sale and delivery on Oct. 30, of 100 second-mortgage bonds of the Milwaukee & St. Paul Company, of \$1,000 cach, on account of the sinking fund, as provided in the mortgage. The proposals will be opened Oct. 25, and due notice of the award will be opened Oct. 25, and due

European & North American.
The following statement of the bonded debt has been pub-

The following statement of the bonded debt has been published:

1. An issue of \$280,000 6 per cent. currency bonds, dated Ang. 1, 1863. Of this issue all but \$19,000 have been called in and cancelled. All the coupons have been paid.

2. An issue of \$1,000,000 6 per cent. currency bonds, dated Jan. 1, 1869, made by the City of Bangor and secured by first mortgage on the road from Bangor to Winn, 56 miles. Coupons paid up to and including Jan. 1, 1875.

3. An issue of \$2,000,000 6 per cent. gold bonds, secured by a first mortgage on road from Winn to the St. Croix River, 58 miles, and on the Maine land grant, and a second mortgage on the road from Bangor to Winn. Of these bonds \$1,986,000 have been sold and \$14,000 hypothecated. The coupons have been paid up to and including March 1, 1875.

4. An issue of \$2,000,000 6 per cent. sterling bonds, made by the New Brunswick Company and secured by a first mortgage on the road from the St. Croix River to St. John, 91 miles. These bonds are held in England, \$1,760,000 having been sold and the rest pledged as collateral. Coupons are paid up to and including Jan. 1, 1875.

5. After the consolidated mortgage was made to secure \$6,000,000 6 per cent. gold bonds, of which \$5,000,000 were to be excennged for outstanding bonds of the two companies, a consolidated mortgage was made to secure \$6,000,000 6 per cent. gold bonds, of which \$5,000,000 were to be excennged for outstanding bonds of the two companies, and \$10,000 miles and \$1,000,000 issued as required. No bonds have been sold and \$994,000 pledged as collateral.

The bonded debt of the Bangor & Piscataquis Division consists of \$814,000 Bangor City bonds, secured by first mortgage on the road, \$600,000 being 6 per cent., and \$214,000 7 per cent. currency bonds. All coupons are paid up to and including April 1, 1875.

There is also an issue of \$200,000 7 per cent. gold bonds, all

sis.s. of \$814,000 Bangor City bonds, secured by first mortgage on the road, \$600,000 being 6 per cent., and \$213,000 7 per cent. currency bonds. All coupons are paid up to and including April 1, 1875.

There is also an issue of \$200,000 7 per cent. gold bonds, all of which are held as collateral for a loan of \$100,000. No interest is in default. This makes the total funded debt of the main line \$6,019,000 (\$29,361 per mile), of which \$1,248,000 are hypothecated, and of the Bangor & Piscataquis, \$1,014,000 (\$18,436 per mile), of which \$200,000 are hypothecated.

At a meeting of the creditors in Bangor, Mc., Oct. 5, the committee appointed at the previous meeting subm.tted its report. The total indebtness is placed at \$7,372,704.95 and the net earnings for 1874 were \$334,830, or about \$4% per cent. on the debt. The sale of lands and other property of the company will, it is estimated, realize about \$500,000, which can be used in reducing the debt. The consent of the stockholders has been obtained to the co.nmittee's plan, which, as noted last week, includes the transfer of the stock to trustees for the benefit of the creditors, the funding of one-half of the coupons on the bonds for three years, the extension of the floating debt for six years and the application of all net earnings after paying for necessary repairs and improvements, to the reduction of the floating debt. In case certain specified debts are not paid

within four years the stock will become the absolute property of the creditors. The report is agreed to by the committee of creditors, the trustees, and the committee of the International Railroad Construction & Transportation Company. The meeting accepted the report with some slight modifications.

A meeting of the bondholders will be held Oct. 19 to act on the proposition made to them.

Penusylvania-New York Division.

Connsylvania—New York Division.

A conference was recently held between officers of the company and a committee of the City Council of Jersey City with
reference to raising the tracks through that city. A plan was
presented and discussed which provided for an elevated road
from the east end of Bergen Cut to a point near the depot and
the closing of two streets adjoining the depot, the estimated
cost being \$600,000. It was finally agreed that the city should
appoint a competent engineer to consult with the railroad engineer, and these two should draw up a complete plan, to be
ready by the latter end of October, when another conference
will be held. ready by the will be held.

Railroads in the New Jersey Constitution.

Railroads in the New Jersey Constitution.

A number of amendments to the Constitution of New Jersey have recently been adopted by vote of the people of that State, several of which have reference to railroads. One of these forbids any county, city, town or other municipality to make any gift, grant or loan of money, property or credit to any corporation. Another prohibits the Legislature from passing any special charter or granting any special privilege to any railroad or other corporation, and requires the Legislature to pass general laws regulating the formation of railroad and manufacturing companies; this insures the permanence of the present general railroad law, or one similar to it. Another amendment which will probably affect railroad property forbids the passage of any special tax laws, and provides that property shall be taxed only under general laws.

present general railroad law, or one similar to it. Another amendment which will probably affect railroad property forbids the passage of any special tax laws, and provides that property shall be taxed only under general laws.

Indianapolis, Bloomington & Western.

A meeting of bondholders was held in New York, Sept. 30, at which a report was presented by Mr. R. Vernam from the committee appointed some time ago. The report stated that the bonded debt now consists of first-mortgage bonds with unpaid coupons, \$2,000,000; Western Extension bonds, with unpaid coupons, \$2,000,000; Western Extension bonds, with unpaid coupons, \$2,000,000; Western Extension bonds, with unpaid coupons, \$4,265,000. In addition to the bonded debt, the floating debt was stated as upward of \$3,500,000,000, against which \$2,215,000 of the Extension bonds are hypothecated, making a total indebtedness of \$13,285,000,000, against which \$2,215,000 of the Extension bonds are hypothecated, making a total indebtedness of \$13,285,000,000, with a possible addition of \$2,215,000. The rolling stock, badly out of repair, consists of 45 engines, and 25 others unpaid for and claimed by the Rogers Locomotive Works, 337 box freight cars, 280 coal and flat cars, 50 stock cars, 10 baggage cars, 3 baggage and smoking cars, 2 postal cars, and 27 baggage cars. There are also on the road 1,175 box freight cars owned by the Western Car Company, for which the road pays a rental from Sept. 1, 1874, to Jan. 1, 1876, of \$10 per month each, and has to keep them in repair. There is a chattel mortgage to secure the floating indebtedness on all the rolling stock, furniture, equipments, buildings, and income of the company, and one of its clauses provides that, unless the \$3,000,000 be paid within two years from Nov. 16, 1874, the whole shall be forfeited and sold to pay the floating debt. In Illinois it is believed that this chattel mortgage bars any rights of the real estate mortgage bondholders in the personal property of the company. The Receiver was ordered by the co

bondholders present to authorize the Trustees to proceed with a foreclosure.

A very sharp debate then sprung up and it soon appeared that, although the call had been issued to first-mortgage bondholders, a number of the second-mortgage holders were also present, and they, with a portion of the first-mortgage bondholders who were opposed to the objects of the party calling the meeting, were in a majority. At length the callers of the meeting gave up in despair, and the opposition accepted the resignation of Mr. Wyckoff, of the old committee, and elected Mr. T. J. Van Wyck in his stead, after which they adjourned. The callers of the meeting at once reassembled, and elected Mr. Kingsley Chairman and Mr. McDowell Secretary. Mr. Vernam said that the English and German first-mortgage bondholders had promised to send on names to represent them on the proposed committee. Messrs. Earl P. Mason, of Providence, R. I.; L. H. Alden, of Passaic, N. J.; F. W. Peck, of Chicago, Ill., and J. Wyman Jones and Remington Vernam, of New York, were unanimously chosen a committee to represent the first-mortgage bondholders, to devise a plan of reorganization and to report, the understanding being that the English and German representatives shall be added as soon as their names arrive. It was stated that these five gentlemen represent 683 bonds, and that their election was not in a spirit of opposition to the other bondholders and their proceedings, but merely to guard the interests of the first-mortgage bondholders. The meeting then adjourned.

Belleville & Carondelet.

Belleville & Carondelet.

This company, which proposed some years ago to build a railroad from Belleville, Ill., to East Carondelet, mainly for the purpose of carrying coal to the iron works at Carondelet, has been revived, and there is talk of beginning work soon.

Illinois Central.

This company now runs through cars from Chicago to Spring-field and Peoria by way of Gilman and the Gilman, Clinton & Springfield and the Toledo, Peoria & Warsaw roads. Two trains are run daily each way.

Waynesburg & Washington.

Waynesourg & Washington.

It is now expected that the grading of this road will be completed by Nov. 1, and unless the weather is unusually unfavorable the track will be laid and trains running in December. The road, which is of three-feet gauge, is to run from Washington, Pa., southward through a rich and well settled agricultural country to Waynesburg, a distance of 28 miles. The

stock has almost all been taken by the people along the line who have also, in most cases, given the right of way and funished ties at very low prices. The road is being cheaply built, is laid with 30-pound iron, and will cost only about \$6,500 per mile, with an equipment sufficient for its present needs. There is already talk of branches or extensions from Waynesburg south to Blacksville and also to Carmichael's. The country on the line is entirely destitute of railroad facilities.

Sharon.

The grading of this new road from Sharon, Pa., to Transfer s completed from Sharon as far as Shady Side, and the work of laying the track has been begun.

of laying the track has been begun.

Syracuse, Geneva & Corning.

The Fall Brook Coal Company, which recently obtained control of the old Corning & Sodus Bay Company, has organized a new corporation under the name of the Syracuse, deneva & Corning Railroad Company, for the purpose of completing the road. The road will run from Corning, N. Y., northward by way of Savona, and up the west side of Grooked Lake to Penn Yan, and thence to Geneva, a distance of nearly 60 miles. It will be an extension of the Corning, Cowanesque & Antrin road, which is worked by the Fall Brook Company, and will give a new outlet to that road, which has heretofore been denendent upon the Eric. give a new outlet to the bendent upon the Erie.

Kalamazoo, Lowell & Northern Michigan

Kalamazoo, Lowell & Northern Michigan.

The officers report that contracts have been let for grading all but two miles of the road between Kalamazoo and Hastings, and all but 7% miles of that between Hastings and Lowell. The estimated cost of completing the sections let is \$22,948; for grading 9% miles not yet let, \$26,722; bridges and culverta, \$24,250; ties, \$23,204; right of way not yet secured, \$3,000; sundries, \$12,666; total, \$112,690. The cost of the work done up to Aug. 1 was \$62,358.38, and the good subscriptions and donations on hand \$120,661.62. Of these, however, \$26,000 are not available until the road is finished. An effort is to be made to raise \$18,000 by subscriptions to the stock, and donations of ties and timber along the line.

Kansas City Union Depot.

Kansas Uity Union Depot.

A meeting of the superintendents and managers of the lines interested was held in Kansas City, Mo., Sept. 23, to decide on the question of rebuilding the depot recently burned. It is said that they agreed to build a fine depot, to cost about \$200,000. A committee of five was appointed to take control of the matter, select the location, etc. The committee consists of George H. Nettleton, W. R. Arthur, Ford Barnard and Charles N. Lee. It is thought that a new site will be chosen not far from the old one.

Philadelphia & Reading.

Over 450 men have been discharged from the shops at Reading, Pa., and the shops are to run with the reduced force for several months. Several train crews have been laid off, and there has been a general reduction in the number of employes.

Galveston, Houston & Henderson.

traiveston, houston & Henderson.

The late severe storm at Galveston did serious injury to this road. On Galveston Island the road-bed was very badly washed, and besides the breaks in the bridge over the bay the road-bed was washed away for several miles west from Virginis Point, the ties and rails being carried off the road-bed enturely in many places. There were other small breaks, and though a force of 500 men was set at work, traffic was not resumed until Oct. 4.

Galveston, Harrisburg & San Antonio.

This road suffered considerably from the late storm in Texas.

For 18 miles, from East Bernard to Richmond, the track was almost entirely washed away, requiring a great deal of labor to restore it. One span of the bridge over the Brazos River at Richmond was carried away, and all traffic stopped for nearly two weeks.

New Jersey Midland.

New Jersey Midland.

A meeting of the bondholders has been called by the committee and was to be held at No. 160 Fulton street, New York, Oct. 7, at 1 p. m. The object of the meeting was to consider a plan of reorganization prepared by the committee, which is, briefly, as follows;

1. The road to be sold under foreclosure of the first mortgage and a new company organized.

2. The receivers' certificates to be provided for either by paying them gradually from the net earnings or by the issue of short-time bonds under a provisional mortgage. Their estimated amount is from \$350,000 to \$500,000.

3. A first mortgage to secure \$3,000,000 in 7 per cent. bonds to be issued to the present first-mortgage bondholders, the coupons for three years to be funded.

4. First preferred stock to the amount of \$1,200,000 to be issued for the overdue and funded first-mortgage coupons on the basis of \$1,400 stock for \$1,000 coupons.

5. Second preferred stock to the amount of \$1,500,000 to be issued in exchange for the present second-mortgage bonds.

6. Common stock to the amount of \$600,000 to be issued to the floating-debt creditors.

7. The rest of the common stock, not to exceed \$700,000, to be divided pro rata among the holders of the present common stock.

This will give the company stock at the rate of \$56,338 and

stock.

This will give the company stock at the rate of \$56,338 and bonds at the rate \$42,252 per mile owned, with an annual interest charge of \$210,000, or nearly \$3,000 per mile. To pay this will take probably gross earnings of \$10,000 per mile.

est charge of \$210,000, or nearly \$5,000 per mile.

Northern Pacific.

At the call of the Purchasing Committee, the bondholders who have joined in the agreement for the re-organization of the company met in New York, Sept. 29. It was estimated that about \$15,000,000 of the bonds were represented. The Puchasing Committee submitted a report, which stated that the mortgage was foreclosed on April 16 last in the United States Circuit Court, and a receiver appointed; and, in conformity to subsequent decrees of the Court, all the property of the company, except the patented and certified lands, with all the rights, liberties and franchises, including the franchise to be a corporation, was put up at public auction on Aug. 12 last, and purchased by them for \$100,000; that on Aug. 25 the sale was confirmed by them Court; that the preparation of the deeds and papers incident thereto had been prepared with great care, under the advice of counsel, and just completed; that they had this day come into full possession of the property so purchased, and proposed to place it immediately under the control and management of the directors about to be elected. The patented and certified lands of the company remaining unsold amount to about 600,000 acres, all in Minnesols and Dakota, the sale of which awaits the order of the court. The decree for their sale provides for the payment of 5 per cent. of the purchase money in cash, and that the balance may be paid in first mortgage bonds of the company. For the pupose of securing to the bondholders in general the full benefit of the entire property of the company, under the foreclosure, the committee has caused the surrendered bonds to remain in the hands of the Farmers' Loan and Trust Company, subject to the control of the committee, for such future use as the interest of the bondholders may demand. In compliance with the call issued Aug. 12 last, bonds have been deposited with the Farmers' Loan and Trust Company, subject to the control of the committee, for such future use as the intere

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perature as way more period for the pur lacite you had a summy to through if every ma

tions are daily being made and the committee expect that nearly all will eventually come in. The report says, in conclusion: "You have now 550 miles of road in paying operation, substantially free from debt, and an attaching domain of nearly 10,000,000 acres of land. With this immense extent of unencumbered property as a basis for future operations, and the 25,000 and odd acres to be added for every mile of new road to be built-there ought to be little doubt of your ability to secure means for the early resumption of work in the extension and completion of the road."

A communication from the Receiver, General Cass, was submitted, giving an account of his management of the road. During his administration as Receiver the earnings had been sufficent to pay all expenses and leave a balance of \$17,000.

Notice was given by the attorneys for F. Carrell Brewster, a bondholder, that on his petition the United States Circuit Court, at Hartford, Conn., had granted an order to show cause why the foreglosure proceedings should not be set aside. This order was to be heard this week.

The bondholders, after adopting the usual by-laws, proceeded to organize the corporation by the election of thirteen directors. The persons chosen are nearly all representatives of the party which started the road in the first place and has since built and managed it, and has also had the management of the foreclosure and reorganization. The board subsequently elected the usual officers, Mr. Charles B. Wright, of Philadelphia, being President. It is said that Mr. Wright has only accepted the will probably retire before long.

Buffalo & Jamestown.

The track is now laid to the southern terminus at James.

Ruffalo & Jamestown.

Buffalo & Jamestown.

The track is now laid to the southern terminus at Jamestown, N. Y., three miles beyond the point last noted and 69 miles southward from Buffalo. Regular trains, which now run to Kennedy, 60 miles from Buffalo, will soon be extended to Jamestown, and there will probably be a formal opening of the line. The Atlantic & Great Western depot at Jamestown will probably be used by both companies.

The read just completed was begun some three years ago and was intended to form a new and direct line from Buffalo to Titusville, Pa. The Oil Producers' Railroad Company, which was formed to build the Pennsylvania end of the line, abandoned the enterprise without doing any work and was subsequently dissolved. In spite of this partial failure of the plan, however, the Buffalo & Jamestown Company, having received large subscriptions from Buffalo and the towns along the line, resolved to complete its road, relying for traffic upon the local business and the connection with the Atlantic & Great Western at Jamestown.

Michigan Air Line.

Michigan Air Line.

This company has resumed possession of the line from Ridgeway, Mich., to Romeo, 16 miles, which has for some years past been known as the St. Clair & Chicago Air Line, and which was recently sold at Sheriff's sale.

Huron & Quebec.

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The town of Peterboro, Ont., has voted to grant a bonus of \$150,000 to this company.

Great Western Telegraph.

Great Western Telegraph.

Mr. O. H. Horton, Receiver, has filed a report with the court. He says the lines are in fair working order, the total receipts since October, 1874, being \$33,436.02, and the total expenses \$83,156.27. The Western Union Company, to which the greater part of the lines are leased, claims about \$10,000 from the company on various accounts, and there are other accounts against the company, bringing the total amount up to about \$23,500. The Receiver states that the leases with the Western Union Company expire in January next, and advises that the whole lines of the company be sold to pay its debts.

New Martinsville & Mannington.

The people of Wetzel County, W. Va., have voted to subscribe \$41,000 in aid of a narrow-gauge railroad from the Ohio Ever at New Martinsville westward up the valley of Fishing Creek to the Baltimore & Ohio at Mannington. The distance is about 30 miles. The work will, it is said, be very light. Proposals have been made, it is said, to build and equip the road or \$6,000 per mile. It will pass through a secluded region, heretofore almost entirely destitute of transportation facilities.

Chicago, Clinton & Western.

In the Davenport (Ia.) District Court, Sept. 30, two mechaniss lies were filed against the Chicago, Clinton & Western Bairoad and F. E. Hinckley, contractor—one by Wallbaum, Bridges & Co., sub-contractors, claiming some \$50,000 for building the road west of Clinton; and the other by Downey & Wright, for \$6,000, for work done on the line of road. It appears that the sub-contractors have thus far received only \$12,000 in money.

Rookton & Copperopolis.

The negotiations with the bondholders have been completed and the exchange of bonds made. As heretofore stated, the terms were that for their \$1,000,000 of 8 per cent. bonds, the principal of which is past due, the bondholders agree to take \$00,000 of new 5 per cent. bonds having 30 years to run, principal and interest guaranteed by the Central Pacific Company. California Pacific.

chifornia Pacific.

The Commercial and Financial Chronicle says: "Negotiasias are on foot between the holders of the extension bonds of
the company and the present officers of the company, which
research several of the large proprietors in the Central
fielia Company. The committee representing the Gertan bondholders have accepted the terms offered by the
allroad company—viz., to exchange \$3,500,000 of the old
bands, with the unpaid interest thereon, amounting to
the California Pacific Company, running thirty years from July
1,875, payment of which is guaranteed by the Central Pacific
tailroad Company. This action of the committee requires
the approval of the bondholders before it can be acted on. Albough the bondholders had gained a decision in their favor in
the State Court of California, their counsel were not satisfied to
wait the decision of the case by the United States Circuit Court,
and determined to accept the original offer in behalf of their
clients; it is understood on the ground that the Extension
bands were made mortgages on a road which was never built,
and it was doubtful if they constituted a lien upon any portion
of the constructed road. The new bonds to be issued under the
Poposal will be the equivalent of the third-mortgage bonds.
Its deals, paying appear not to have been on the basis of so much
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The Commercial Company and the constructed road. The new bonds to be issued under the
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Tailedo, Peoria & Warsaw.

Kr. N. Finney, the Chief Engineer and Assistant Superindent, has issued the following circular to employes, dated os. 1: "The season is approaching when variations in temperature and unsettled weather make the operations of a rail-my more hazardous than during the summer months. The people of a continuing you against all neglect, and to interpret to renewed vigilance and watchfulness. We have all a summer of unusual freedom from accident, and we may a through the fall, winter and spring with the same immunity it way man will do his duty with fidelity. Take no risks. Be as you are on the safe side. Let every engineer look out for a safety of his engine and train. Let every conductor watch samely that no duty devolving upon him is in any way neg-

lected. Let every station agent and operator be vigilant. Let every section foreman and laborer watch his track, switches and frogs. And if every man, no matter what his position, will take a personal interest in his own work, be courteous, prompt and faithful, we shall see the business of the road done in a manner creditable to ourselves and with satisfaction to our patrons. I feel sure that every one of you will join me heartily in doing this good work."

Keithsburg & Eastern.

At the annual meeting recently the stockholders voted to approve an agreement of consolidation with the Forty-first Parallel Railroad Company of Indiana, and another company of the same name in Iowa.

Quachita Valley.

A movement is on foot to complete this road, which is partly graded from the St. Louis, Iron Mountain & Southern at Arkadelphia, Ark, south to Camden, 40 miles. It is also proposed to extend it from Camden south by east through Eldorado to Farmersville in Union Parish, La., a further distance of 71 miles. The Farmersville people are willing to build the road from their town to the Arkansas line.

Danville & New River.

The people of Henry County, Va., have voted to subscribe \$100,000 to this projected road from Danville, Va., west to Taylorsville. Private subscriptions to the amount of \$85,000 have also been secured.

Richmond, Fredericksburg & Potomac.

The buildings for the new repair shops at the Fair Grounds in Richmond, Va., have been completed, and the tools and machinery were to be removed there this week from the old shops on Broad street.

shops on Broad street.

Petersburg.

The Virginia Circuit Court has granted an injunction restraining the city of Petersburg from selling 3,500 shares of stock in the Petersburg railroad owned by Reuben Ragland, and held by the city as collateral security for the amount of a claim against Ragland.

The injunction was granted at the instance of Reuben Ragland, who claims that the Seaboard & Roanoke Railroad Company and the authorities of the city of Petersburg have conspired to depreciate the stock, they knowing that they are likely to be bidders for the same if sold in bulk.

Springfield & New London.

The long cut near the junction with the Springfield, Athol & Northeastern road has been completed, a switch put in to connect with that road, and the work of tracklaying will be begun at once. The rails have been ordered from the Albany & Rensselaer Iron & Steel Company at Troy, N. Y.

Davenport & St. Paul.

Surveys are being made for the proposed new entrance into the city of Davenport, Ia., which is also to be used by the Chicago, Clinton & Western road.

Burlington & Northwestern.

A committee from this company has been conferring with Receiver Winslow of the Burlington, Cedar Rapids & Minnesota with reference to securing for the new road the use of the Cedar Rapid's track from Burlington to Mediapolis. Mr. Winslow has refused the request for the use of the track and the question is to be referred to the representatives of the bond-holders.

Pacific, of Missouri.

racific, of Missouri.

Rumors are current as to the embarrassment of this company and the lessee of its lines, the Atlantic & Pacific Company. This embarrassment is said to arise from difficulty in carrying the floating debt. It is also rumored that the quarterly dividend on Missouri Pacific stock will not be paid, although the lessee has given the usual notice of payment. Monday, the stock fell from 36 to 28.

In the suit brought by the St. Louis, Lawrence & Denver bondholders to enforce the payment by this company of coupons falling due after the lease of that road by the Missouri Pacific had been canceled, the United States Circuit Court has decided against the bondholders, and holds that this company is not liable.

Vermont Central.

The taking of testimony on the accounts of the trustees is completed, and an adjournment has been had until Oct. 19, when arguments will be heard from counsel for the trustees, the bondholders and the Vermont & Canada Company. The evidence put in by the trustees in rebuttal was voluminous and was mainly in a documentary form. Mr. W. C. Smith defended the contracts made with the St. Albans Foundry Company, claiming that no more than the regular market price at Troy, with freight to St. Albans added, had been paid by the trust. Mr. J. Gregory Smith also nade a long argument in defense of the management, claiming that the trust should be treated as a corporation, and also that the various leases and extensions had been made with the consent of the parties in interest.

Peoria & Mississippi.

It is proposed to build a narrow-gauge railroad from Peoria, II., westward by way of Tivoli, Norris and Prairie City to the Mississippi River, a distance of about 90 miles. It is thought that nearly enough local subscriptions can be obtained to build the road.

Pacific Mail.

It is reported that this company has agreed to sell its line from Yokohama, Japan, to Shanghai, China, with four of its smaller steamers, for \$700,000. It appears to be certain that negotiations have been in progress.

smaller steamers, for \$700,000. It appears to be certain that negotiations have been in progress.

Railroad Building in California.

The San Francisco Bulletin of Sept. 23 says: "If we except the operations of the Southern Pacific Railroad Company at Tehachape, San Fernando and San Gorgonio, the railroad enterprises now under way in this State are not of very great magnitude. But there are a number of minor ones which are of considerable importance to those sections of the State which they intersect. The southern counties have been the chief scene of railroad operations of every description for some time past, the development of that part of California having been much slower than that of the northern and midland counties.

"In addition to the work being done on the main trunk between the Colorado Desert and Caliente, the Southern Pacific Railroad Company is extending the Anaheim Branch to the thriving settlement of Santa Ana, six miles beyond. The same company has recently completed a preliminary survey of the route from San Diego to San Bernardino; and the survey of the route from San Diego to Fort Yuma is also contemplated.

"Grading and tracklaying are being pushed vigorously shead on the line of the Los Angeles & Independence Railroad, between Santa Monica and Los Angeles, and between Los Angeles, and the right of way through the public streets of the city obtained, so that there ought not to be any great delay in putting that part of the road to tide-water in running order. We learn from the San Luis & Santa Maria Valley Railroad from Avila to the former place, and will be completed by Jan. 1. A project is also on foot to continue the construction of the road from the Santa Maria Valley across the Sierra de San Rafael to Bakersfield, Kern County, a distance of 150 miles. If the project

ever matures it will give the upper Tulare Valley a short cut to tide-water.

ever matures it will give the upper Tulare Valley a short cut to tide-water.

"The people of Alameda and Santa Clara counties are moving in the matter of constructing a narrow-gauge railroad from Los Gatos to Alviso on the bay shore, and around the head of the bay to Dumbarton Point opposite Ravenswood. The cost of the road is estimated by its projectors at \$12,500 per mile.

"Ione Valley, in Amador County, contains considerable good agricultural land; but it has so far lacked any better transportation accommodation than ordinary teams can furnish. The inauguration of two railroad enterprises which contemplated connecting the valley and the mines around Sutter Creek and Jackson with the Central Pacide Railroad was hailed by the citizens of that county with considerable delight. One of these roads—the Galt & Ione—is an orfshoot of the Central Pacide; the other—the Ione Valley—is under an independent corporation. Owing to the tardiness of the stockholders in paying u assessments, work on the latter has been temporarily suspended. The Central Pacide Company is taking advantage of the situation and pushing its road ahead vigorously.

"Throwing out branches to connect with the trunk roads, or the construction of short independent lines to tidewater, is really the principal feature in railroad building in California at present. Besides those already named, a railroad is being built from Fulton to Guerneville, in Sonoma County, a distance of fifteen miles; graders are at work on a branch railroad from Woodland, Yolo County, to Tehama, and Nevada is seeking a noutlet to Colfax by means of a narrow-gauge railroad. The construction of a railroad from Chico to Susanville is a matter now under consideration. One of the most important enterprises the Oregon & California Railroad Company have in contemplation is the construction of that road to its ultimate destination, via Goose Lake Valley, at an early date. Within the past few weeks, some of the leading directors of the Central Pacific Railroad Company, how also control t

This company proposes to build a branch from South Mon-tague, Mass., by way of Montague Center to Turner's Falls. The distance is six miles, and the route an easy one.

The distance is six miles, and the route an easy one.

Portland & Ogdensburg.

The town of Littleton, N. H., has begun suit to enjoin this company from building its road as at present located by way of Whitefield and Dalton. The charter directs that the road should pass through Littleton, unless that route should be tound impracticable, in which case the location through Whitefield and Dalton could be adopted. The suit, of course, will depend upon whether the Littleton route is impracticable in the sense of the charter, that is, in respect to grades. A temporary injunction was granted to hold until after the hearing before the Circuit Court. A compromise, however, was afterwards agreed upon, the injunction was dissolved, and the work on the road will proceed.

Tennessee Railroad Taxation.
The State Board of Assessors has made the following valuations of railroad property in Tennessee under the law of 1875:

	Mileage	Rate	Total
	in State.	per mile.	valuation.
Mobile & Ohio	. 117	\$6,000	\$702,000
St. Louis & Southeastern	. 48	6,000	288,000
Cin., Cumberland Gap & Charleston	. 39.3	10,000	393,000
N. O., St. Louis & Chicago	. 116.13	12,500	1,451,625
Mississippi & Tennessee		10,000	93,000
Paducah & Memphis		8,000	528,000
Louisville & Nashville, Main Stem		18,000	817,560
Louisville & Nashville, Nashville & Deca			
tur Div		11,000	1,022,670
Louisville & Nashville, Memphis Line	212.6	15,000	3,189,000
Knoxville & Charleston		10,000	160,000
Knoxville & Ohio		12,000	480,000
Rogersville & Jefferson		5,000	80,3 10
1 41	41	3 4 3.	total a mil

Rogersville & Jefferson. 16 5,000 89,191
As the counties are allowed to tax the roads at as high a valuation as the State, the assessments appear in most cases to be very high.

The companies that have accepted the law and agreed to pay the annual tax of 1½ per cent. on gross earnings in lieu of all other taxes are the Nashville, Chattanooga & St. Louis, the Western & Atlantic, the East Tennessee, Virginia & Georgia, the Memphis & Charleston, the Winchester & Alabama, the McMinnville & Manchester, the Tennessee & Pacific and the Tennessee Coal & Railroad Company.

Toledo, Ann Arbor & Northern.

The bankrupt sale of the property of this company, which was postponed from Sept. 14, took place Sept. 27. The property, consisting of right of way and partly graded road-be-l, was bought by Benjamin J. Crane, of Ann Arbor, Mich., for \$1,000. It is said that he represents parties who will go on and finish the road.

Dayton & Southeastern.

The road has been finally located from Dayton, O., to Salt Creek in Jackson County. The company intends to let the contracts for that section as soon as the engineering work is done.

New York, New Haven & Hartford.

The general freight office, which has been located in Hart-ford, Conn., is to be removed to New Haven early in October. The general offices are now all in New Haven or New York.

The general offices are now all in New Haven or New York.

Elizabeth, Lexington & Big Sandy.

A meeting was held in Louisville, Ky., Sept. 28, at which were present committees of the City Council and of citizens of Louisville and committees from Richmond, Ya., and Lexington, Ky., the object being to devise some way of completing this road to a connection with the Chesapeake & Ohio. It was resolved that Louisville ought to subscribe \$500,000 in aid of the completion of the road, from the present terminus at Mount Sterling to Huntington, provided Richmond will subscribe \$300,000, and that \$200,000 more is raised in Kentucky, these subscriptions to be made on condition that the present managers and stockholders will give the new subscribers the control of the road on satisfactory terms, and that the Legislature of Kentucky will make the necessary alterations in the charter of the company.

Illinois Central.

Illinois Gentral.

There is a controversy on hand with the Internal Revenue Department, which claims some \$69,000 back taxes due from the company in the form of unpaid tax on earnings. The company claims that this amount is made up by including receipts from land sales in the earnings. The books are to be examined by expert accountants at the request of the company.

by expert accountants at the request of the company.

Delaware & Hudson Canal.

The new office building of this company in New York, which is of unusually solid construction, is thus described in the New York Times: "The new and magnificent structure to be known as the Coal and Iron Exchange, on the corner of New Church and Cortlandt streets, is almost completed, and will soon be ready for occupancy. It extends 148 feet on Cortlandt street and 105 on New Church, covering nearly six full lots, the majority of which were formerly the old Western Hotel property. The ground cost over \$300,000 and the building about \$1,230,000. The new Exchange is five stories in height, with a Mansard roof and two quadrangular towers, one at either end of the Cortlandt street front. The first story, which is on a level with the street, is of fluted Nova Scotia stone. The superstructure is of brick, with heavy carved Nova Scotia stone trim-

mings. The main entrance is in the center of the Cortlandt street frontage, and consists of an imposing archway of Nova Scotia stone, cut in graceful designs, and a flight of wide stone steps extending from the street to the floor of the second story. Thence marble stairways, balustered with 100 of unique pattern, run up to the top floor. All the hall floors are of white tesselated marble, and the sides of the halls and stairways are wainscoted with gray, white and black marble, so inlaid as to produce a very neat and pleasing effect. The portion of the lowest story facing upon the New Church street side, 50% by 74 feet, has been set apart for the purposes of an Exchange, where persons interested in coal or iron may meet daily to exchange views, obtain the latest trade information, and barter, as in the Produce Exchange. This room covers 1,868 square feet. Near it are two other large rooms to be used as a dining-room and kitchen by the Delaware & Hudson Canal Company, who own the building, and whose offices will take up the entire western half of the floor above. The remainder of the edifice has been laid out into suites of offices which are intended to be let to private parties connected with the two interests to which the structure is devoted. There are two elevators, extending from top to bottom of the building, on either side of the main staircase, and behind them is a large foul-air and smoke shaft. The heating and ventilating apparatus are of the most efficient kind. Several large condensing boilers have recently been placed in the cellar. Behind the elevators and air shaft there is a large court for the purpose of affording additional light and ventilation to the rear offices. The ceilings throughout are very high, the walls are hard finished, and the doors and wood-work generally are of ash, with panels veneered with polished ash root, an exceedingly beautiful wood. It is expected that the Exchange will be opened for business in a few weeks."

The Southern Railroad Agreement.

change will be opened for business in a few weeks."

The Southern Railroad Agreement.

Trouble is likely to arise from the recent pooling agreement. It appears that while the agreement was in full force the South Carolina road, which was not in the pool, secured a good share of the business going from Atlanta to the sea-board, and this freight passed over the Georgia Railroad from Atlanta to Augusta. The Georgia road was in the pool, and will have a considerable surplus to pay into the joint treasury under the agreement. The Atlanta Herald says that a movement is on foot among the Georgia stockholders against this, and that General Toombs and Judge Collier will probably file a bill on behalf of the stockholders to restrain the Georgia Railroad Company from paying any portion of its freight earnings into the pool. In case any amount has been paid over they will seek to make President King personally responsible for such

amount.

It is also stated that the East Tennessee, Virginia & Georgia and the Atlantic, Mississippi & Ohio companies, as well as the South Carolina, have always opposed the pooling principle. The Western & Atlantic also, it is said, did not approve of it.

Atchison, Topeka & Santa Fe.

The Boston Advertiser says: "The Atchison, Topeka & Santa Fe Railroad resumes interest on the land grant bonds Oct. 1, and also pays coupon No. 5 on \$976,000 consolidated second-mortgage bonds. These are not the bonds selling in the market at 36%, but are an earlier issue of the same class. The last issue amounts to \$2,074,000, into which 18 months of first-mortgage coupons were funded, and by agreement the first coupon on these does not mature until Oct. 1, 1876. With the exception of this difference of one year's interest, these bonds are precisely the same, and after October, 1876, will be identical."

Gulf, Western Texas & Pacific.

The recent storm and flood almost destroyed the Gulf terminus of this road, at Indianols, Tex. The wharf, engine house, depot, repair shops, turn-table and several cars were swept away and destroyed, causing a loss estimated at \$55,000. It will take some time to replace the buildings lost.

Old Colony.

A section of ten miles of the road from Boston out is to be supplied with Hall's electric signals, and worked on that system. The passenger-train cars are now nearly all fitted with the Miller platform.

Southern Minnesota.

Notice is given that the coupons due April 1 on the first mortgage 7 per cent. (pink) bonds, with interest thereon to date, and the coupons due Oct. 1 on the same bonds will be paid on presentation at the Third National Bank in New York.

date, and the coupons due Oct. I on the same bonds will be paid on presentation at the Third National Bank in New York.

Detroit River Tunnel.

The Detroit Free Press, in giving an account of some blasting operations in the bend of Detroit River at what is known as the "cross-over at the lime kilns," says:

"Within about a week after W. K. Muir's assumption of the management of the Canada Southern Railway a party of engineers was set at work at the 'cross-over' to take observations relative to the construction of a railway tunnel, and the result shows that the location is very advantageous for the successful prosecution of the proposed work. Soundings have been taken showing a river bed somewhat uneven, with a depth of water varying from ten to twenty-five feet. 'Observations have been made where each sounding was taken, showing that for the most part the bed of the river consists of limestone, while the measurements indicate that the tunnel proper will be but a trifle over half a mile in length, and, with its approaches, one mile and a half long. It is estimated that a double-track tunnel can be constructed at this point at an expense not quite half as great as the estimated cost of the abandoned project between this city and Windsor, while it is thought that the work can be completed in less than two years.'

Montolair.

Montolair.

The first-mortgage bondholders, who bought this road at the recent forcelosure sale, took possession of the property Sept. 29, and the formal deed was executed a few days later. A temporary bridge is to be put up over the Passaic River to replace the one burned two months ago. A new iron bridge is to be built by the Watson Manufacturing Company of Paterson as soon as possible. Other improvements will be begun as soon as arrangements can be made.

The bondholders' committee has invited the town committees of the towns in New Jersey which issued bonds in aid of the road to a conference, the object being to see if some arrangement cannot be made for the recognition of the townships interest in the road? The towns which subscribed were Montolair, Kearny, Woodside and Pompton. The town of Woodside has since been annexed to the city of Newark, while Pompton has had trouble with the road and refused to a conference.

Notice is given that first-mortgage broadbadders who did not

conference.

Notice is given that first-mortgage bondholders who did not join in the agreement to purchase the road can do so now, provided they deposit their bonds without delay. The new corporation formed by the bondholders has been fully organized.

West Wisconsin.

Dr. de Klerck writes from Amsterdam that at the London meeting of bondholders Sept. 15 a committee was appointed, but there not being much confidence in its effectiveness, the bonds fell from 38% to 38. It was rumored that there would at all events be a delay in the absorption of the company by the Chicago α Northwestern, on account of difficulty in the way of the prop sed new issue of stock. This, it is said, cannot be

made unless announcement is made three months before the stockholders' meeting of the directors' intention to ask permission to make such an issue.

A case is now on trial in the Monroe County (Wis.) Circuit Court which involves the right of this company to build the new line from Warren's Mills to Elroy. This extension was built three years ago to secure connection with the Chicago & Northwestern and at the same time the old track from Warren's Mills to Tomah was taken up, which gave great offense to some local interests. The defendant in the suit in question some month, ago tore up the track through his property, claiming that the company had no legal authority to build the extension or to change its line. The company had him arrested on a criminal charge for obstructing the track and also began a civil suit for damages. The criminal charge is that on which he is now being tried.

Chicago, Milwaukee & St. Panl.

Chicago, Milwaukee & St. Paul.

There is again talk of the extension of the Monroe Branch from Monroe, Wis., westward to Dubuque, Ia., a distance of about 55 miles. It is said that parties in Dubuque have offered considerable inducements to the company to make the exten-

Michigan & Ohio.

Mionigan & Unio.

Rumors are current that the Michigan Central has agreed to iron this road from Grand Haven, Mich., to a junction with its Grand River Valley Division, a distance of 35 or 40 miles, and that the same company will then lease and work this section. Nothing definite is known as to the truth of these reports.

Sioux City & Pembina.

The managers of this company have resolved to resulved, which was suspended three years ago. Parties are to put on to finish up the grading, and the President, Mr. Walk has gone East to negotiate for iron enough to lay the track Richland, Dakota.

Susanville & Reno.

Susanville & Keno.

Engineers have recently been engaged in making observations of the proposed line through the Lassen Pass and along Deer Creek. Thus far the explorations have been very satisfactory, and this line is thought to present many advantages over the Feather River route. The Deer Creek country is said to be very fertile, and there are also indications of mineral wealth. The road will open a large lumber district in Chico and Butte counties, California.

Santa Cruz & Felton.

This road is now completed from the town of Santa Cruz, Cal., northerly to Felton. It is of three-feet gauge and six miles long. From Felton a flume has been built about 15 miles up the San Lorenzo Valley to a large body of redwood timber, heretofore inaccessible. The company which owns the railroad has established large mills, the lumber from which is sent down the flume to Felton and thence over the railroad to the shipping port at Santa Cruz.

The Clantral Pacific at the Company was a superscript of the state of the same content of the s

The Central Pacific at the Centennial.

down the flume to Felton and thence over the railroad to the shipping port at Santa Cruz.

The Uentral Pacific at the Centennial.

The Central Pacific is setting a good example to other land grants companies, and indeed to companies without land grants which have an interest in the rapid settlement of the territory where their roads are, as appears by the following extract from the San Francisco Bulletin of Sept. 23: Monday a representative of the Bulletin was admitted to the rooms of the Central Pacific building on Townsend street, where the superb collections of Pacific coast specimens for exhibition at Philadelphia are being stored away and classified. The exhibition will be made under the immediate auspices of the company, although an urgent appeal has been received from the Smithsonian Institute, asking that the privilege of making the display be granted to that management. For the past eighteen months the Land Deportment of the corporation has been industriously seeking out and gathering together the finest mineral, cereal, ornithological and zoological collection ever secured on this coast. Besides this the exhibit will embrace—in fact, already embraces—some of the largest collections of marine, land and fresh water shells ever known. Moreover, specimens of all the coals of the Pacific region have been secured. They represent fully one hundred different grades, from the finest Shasta to the commonest slate-mixed stone. The timber of the coast is represented by specimens, green, polished and petrified. There are also cuts from old monarchs of the forest, whereon approximate estimates of the rain-fall for two centuries past are made in the rings which indicate the yearly growth. To convince the incredulous ones of the accuracy of estimating the moisture of past decades and centuries by this method, a butt cut is shown which was taken from a tree planted seventeen years ago, and the records of rain-fall for two centuries pay for the company. The collection in the estimates is hardly perceptible, and on this

ANNUAL REPORTS.

Kansas City, St. Joseph & Council Bluffs.

This company owns a line from Kansas City, Mo., following the general course of the Missouri River, northwestward to Council Bluffs, Ia., 199.3 miles, with a branch from Amazonia, Mo., north to the lowa line at Hopkins, 50.2 miles, making 249.5 miles. It also works the St. Joseph & Topeka road, from St. Joseph, Mo., to Atchison, Kan., 25 miles.

The property was represented as follows at the close of the fiscal year, Dec. 31, 1874:

Total (\$42,587 per mile).....\$10,625,553 Total (\$42,887 per miles).

The principal of \$539,500 St. Joseph & Council Bluffs 8 per cent, bonds became due June 1, 1874, and \$305,000 three-years' notes also became due between Oct. 1, 1874, and June 1, 1876. At the date of the report these amounts were still unprovided for. The bills payable include \$305,000 three-year 10 per cent. notes, \$577,140 ten-year coupon notes, issued for funded coupons, and \$45,000 real-estate notes given for depot grounds in St. Joseph.

The average receipts were 4.213 cents per passenger per mile, and 2.385 cents per ton per mile.

The earnings of the road for the year were as follows:

The carmings of the road for the year were as follo	WB:
From freight	\$817,086.70 528,324.32 90,662,24
Total (\$5,231.60 per mile)	836,346,13 60,000,00 40,148,96 4,669,43
Total expenses (65.54 per cent.)	
Net earnings (\$1,802.94 per mile)	
No comparison can be made with the previous	

No comparison can be made with the previous year, no port or statement for that year having been published. ? balance of \$357,387.72 is 4.56 per cent. on the funded and faing debt, and is 56.1 per cent. of the annual interest account

Missouri River, Fort Scott & Gulf.

This company owns and works a road from Kansas City, Mo., southward to Baxter Springs, Kan., 161 miles.

The debt of the company at the close of the last fiscal year, Dec. 31, 1874, was as follows:

 Dec. 31, 1874, was as follows:
 \$5,000,000

 First mortgage bonds, 10 per cent
 \$5,000,000

 Second
 1,947,000

 Unpaid first mortgage coupons
 500,000

 Unpaid second
 91,500

 Bulls payable
 94,519

Earnings: 1874. 1873. Inc. or Dec. P.c. Froight. 47,490 22 433,637 63 Inc. 19,852 59 33. Mail and express. 27,888 60 28,399 20 Dec. 500 60 1.8 Miscellaneous. 12,481 52 41,858 97 Dec. 29,377 45 76.1

Totals....... \$409,478 57 \$492,657 60 Inc.. \$83,179 03 16.9 Net earnings ... \$383,921 14 \$215,324 73 Inc .. \$58,596 41 31.9 Earnings per mile. 4,861 00 4,452 72 Dec. 91 72 2.1 Per cent. of expenses ... 50,20 58.79 Dec. 8.59 14.5 Per cent. of expenses, taxes, etc. 59.05 69.59 Dec. 10.54 15.1 The income account was as follows:

Net receipts, less Land Department expenses. \$263.\(^1\)
Land Department . 28.\(^1\)
Coupons of county bonds . 10.\(^1\) \$301,712 78

Total receipts.

Payment of money borrowed to pay coupons. \$185,500 00 Interest. 17,345 85 Traffic guarantee, Kansas City & Santa Fe. 13,905 00 Purchase of coal cars. 44,000 00 Hire "17,160 00 Old coupons paid. 450 00

\$23,351 98

Balance... \$33,361 is
In March the trains of the Leavenworth, Lawrence & Galveton ceased to use the road from Olathe to Kansas City, and is
cars have since been drawn to and from Kansas City of the
engines of this road. In June an agreement was made with
the Missouri, Kansas & Texas for pooling Fort Scott business,
which has worked well. An arrangement was also made for a
transfer to this road at Fort Scott of all Kansas City business
passing over the Missouri, Kansas & Texas. The results have
thus far been satisfactory.

Sir E holders their pr Sept. 25

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